



April 30, 2009

Mr. Charles L. A. Terreni  
Chief Clerk & Administrator  
Public Service Commission of South Carolina  
P. O. Drawer 11649  
Columbia, South Carolina 29211

RE: 2008 Testing Program of Meters, Docket No. 89-499-E

Dear Mr. Terreni:

Under Commission Rule 103-370(1) and in accordance with the Commission's Order in Docket No. 89-499-E, Order No. 90-131, dated February 6, 1990, Carolina Power & Light Company, d/b/a Progress Energy Carolinas, Inc. (Progress Energy) is authorized to use a sample meter testing plan for testing single-phase meters and three-phase (self-contained) non-demand meters, and to periodically test other meters in accordance with approved test plans. Progress Energy is transmitting herewith the results of the Company's 2008 Statistical Watt-hour Meter Sample and Periodic Meter Test Results.

All groups of meters passed the Commission's criteria as set forth in the above-referenced Rule and Order with the exception of Age Group 847, which consists of solid-state General Electric Type KV meters. These are three-phase demand or time-of-use transformer-rated (not self-contained) meters that are installed on nonresidential accounts. These are not remotely-read meters. GE has acknowledged in field bulletins that some KV meters contain a defective solder joint that weakens over time due to vibration; PEC is not the first utility to encounter this problem. Thirty-three of the 633 KV meters on PEC's system that underwent periodic testing in 2008 did not meet the plus-or-minus 2% accuracy parameter set forth in the Commission's rules. In accordance with Rule 103-370(1) and the Commission's Order in Docket No. 89-499-E, Order No. 90-131, dated February 6, 1990, PEC has implemented a three-year corrective action program beginning in 2009 consisting of accelerated testing and maintenance to raise the accuracy performance of this group to acceptable standards. PEC will test all 4,501 GE Type KV meters on its system over a three year period (2009 through 2011), beginning with the oldest one third of the group in 2009. An update on this testing program will be submitted with the next three annual editions of this report, in 2010, 2011, and 2012.

If you have any questions or require any additional information, please call me at (919) 546-6367.

Sincerely,

A handwritten signature in cursive script that reads "Len S. Anthony".

Len S. Anthony

*gnc*

General Counsel – Progress Energy Carolinas, Inc.

Enclosures

cc: Mr. John Flitter (w/ enclosures)

# **2008 Selective Sample Program**

## Progress Energy – Carolinas

### 2008 Watthour Meter Sample Watthour Meter Groupings

<b>Manufacturer</b>	<b>Type</b>	<b>Group</b>	<b>Test Plan</b>	<b>Sample Size</b>	<b>Sample Conclusion</b>
ABB	A1T	11	Double Sample Phase-I	184	Passes Test
Landis & Gyr	DXMX	17	Double Sample Phase-I	213	Passes Test
Itron	CENTRON	20	Double Sample Phase-I	183	Passes Test
ITR	C1SR	21	Double Sample Phase-I	185	Passes Test
ITR	C1SR	22	Double Sample Phase-I	183	Passes Test
ITR	C1SR	23	Double Sample Phase-I	182	Passes Test
ITR	C1SR	24	Double Sample Phase-I	184	Passes Test
ITR	C1SR	25	Double Sample Phase-I	185	Passes Test
ITR	C1SR	26	Double Sample Phase-I	184	Passes Test
General Electric	I50, I70, KV, KV-2C	33	Double Sample Phase-I	177	Passes Test
ABB	A1D, A1T	35	Double Sample Phase-I	183	Passes Test
GE	I210	36	Double Sample Phase-I	182	Passes Test
General Electric	V66, V62, KV, KV-2C	37	Double Sample Phase-I	182	Passes Test
ITR	CN/P1SR, SS4S1T	46	Double Sample Phase-I	177	Passes Test

# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 11 Summary

#### Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1T+

PE Type Code(s): H39

Meter Classification: S\*S1NI

Methodology: Double Sampling Phase 1

Population: 4416

Sample Size: 184

#### Full Load Test Summary

Mean: 99.974

Standard Deviation: 0.0454

Number of Tests > 102%: 0

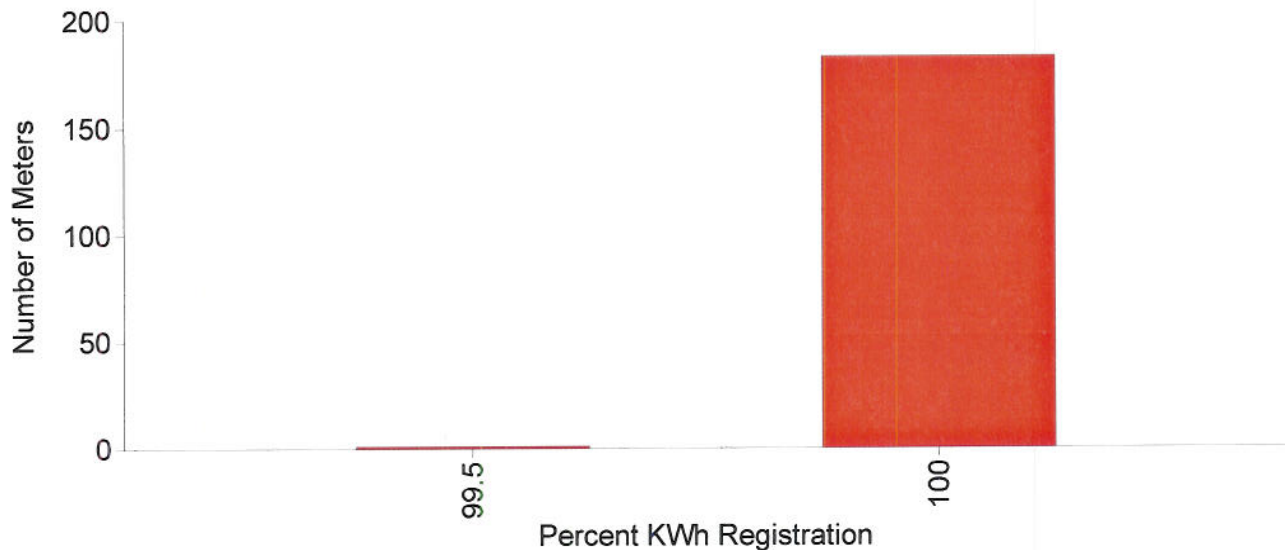
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 11 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 17 Summary

#### Group Information

Manufacturer: L&G

Watthour Meter Type(s): DXMX,TQS,TMS-II

PE Type Code(s): U09,U03,U04,U05

Meter Classification: T\*S1NI

Methodology: Double Sampling Phase 1

Population: 11708

Sample Size: 213

#### Full Load Test Summary

Mean: 99.79

Standard Deviation: 0.3077

Number of Tests > 102%: 0

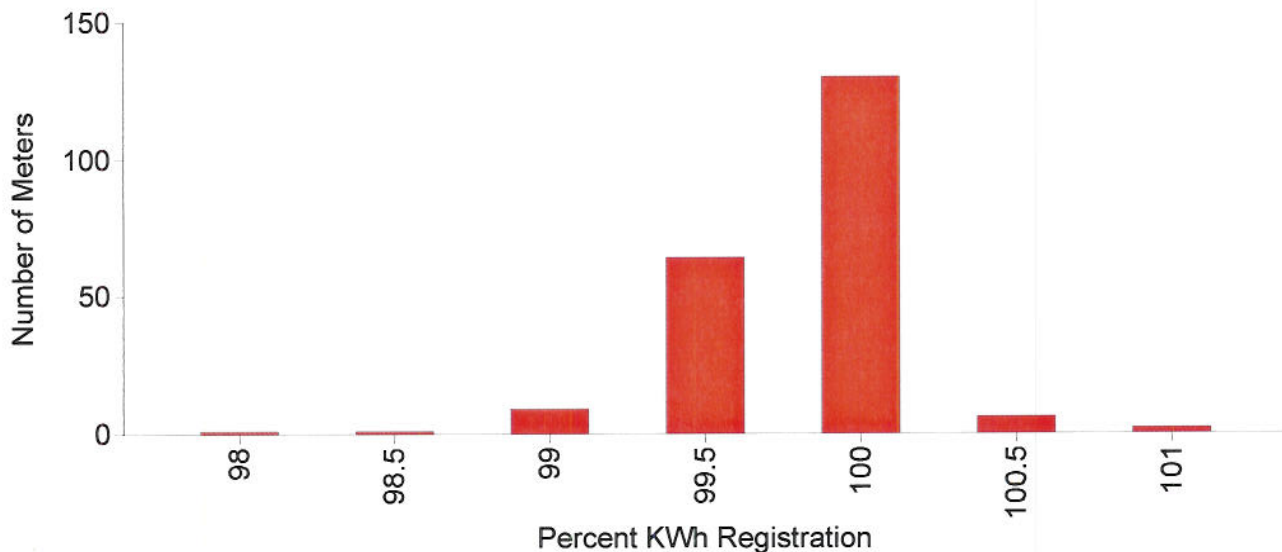
Number of Tests 98 - 102%: 213

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 3

### Histogram of Group 17 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 20 Summary

#### Group Information

Manufacturer: ITRON

Watthour Meter Type(s): CENTRON

PE Type Code(s): M34,S24,M33

Meter Classification: SS\*1NI

Methodology: Double Sampling Phase 1

Population: 19439

Sample Size: 183

#### Full Load Test Summary

Mean: 100.026

Standard Deviation: 0.1349

Number of Tests > 102%: 0

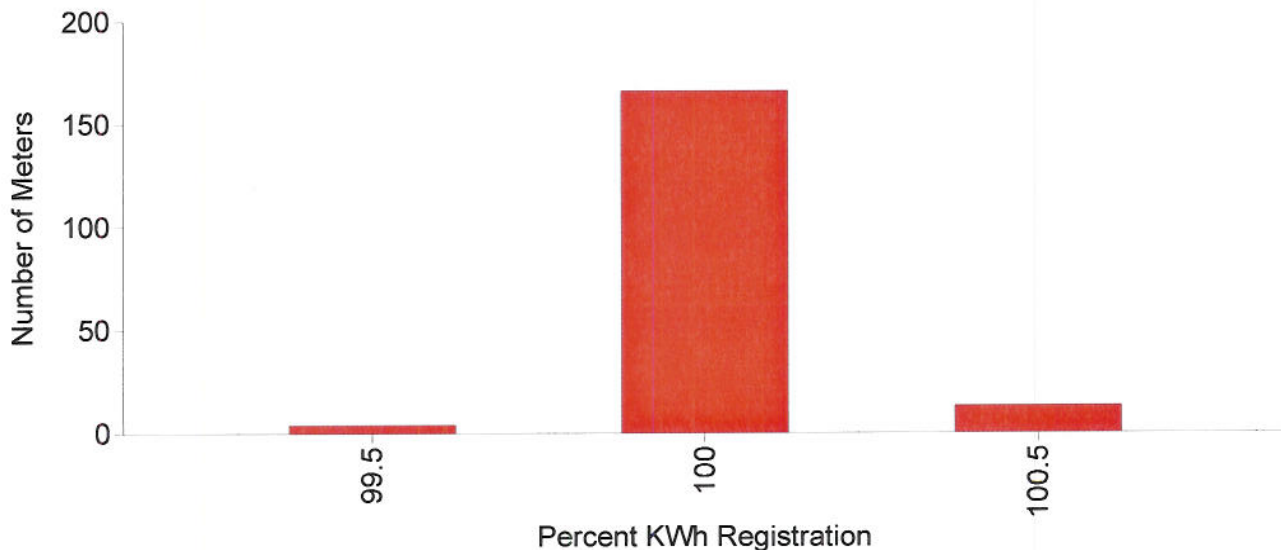
Number of Tests 98 - 102%: 183

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 20 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 21 Summary

#### Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S25

Meter Classification: MMR

Methodology: Double Sampling Phase 1

Population: 333329

Sample Size: 185

#### Full Load Test Summary

Mean: 100.054

Standard Deviation: 0.1101

Number of Tests > 102%: 0

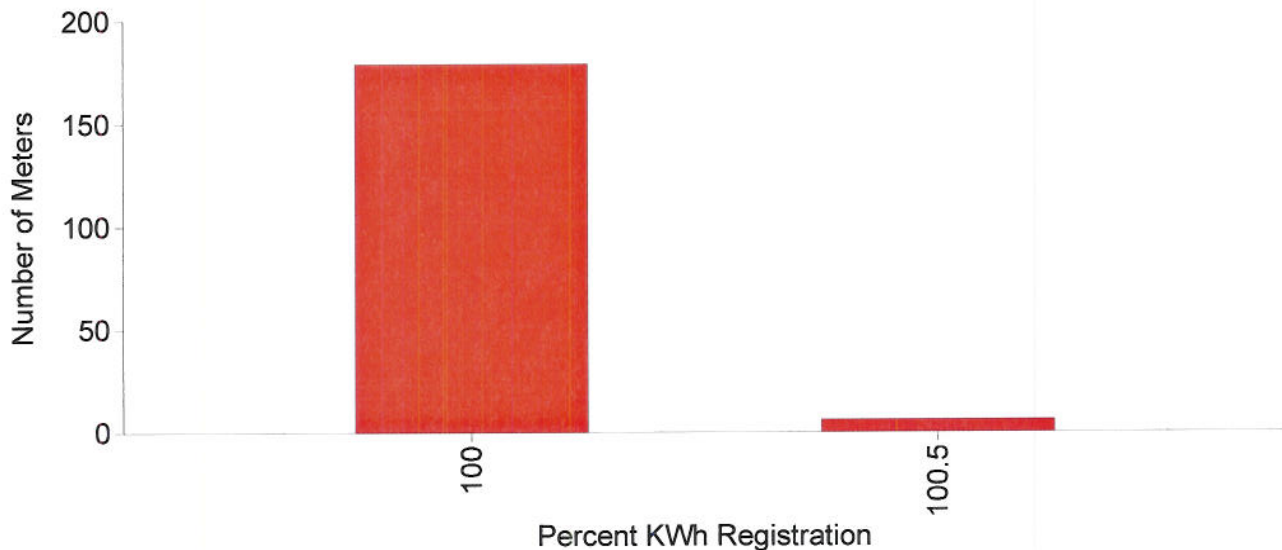
Number of Tests 98 - 102%: 185

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 21 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 22 Summary

#### Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S26

Meter Classification: MMR

Methodology: Double Sampling Phase 1

Population: 23101

Sample Size: 183

#### Full Load Test Summary

Mean: 100.104

Standard Deviation: 0.0891

Number of Tests > 102%: 0

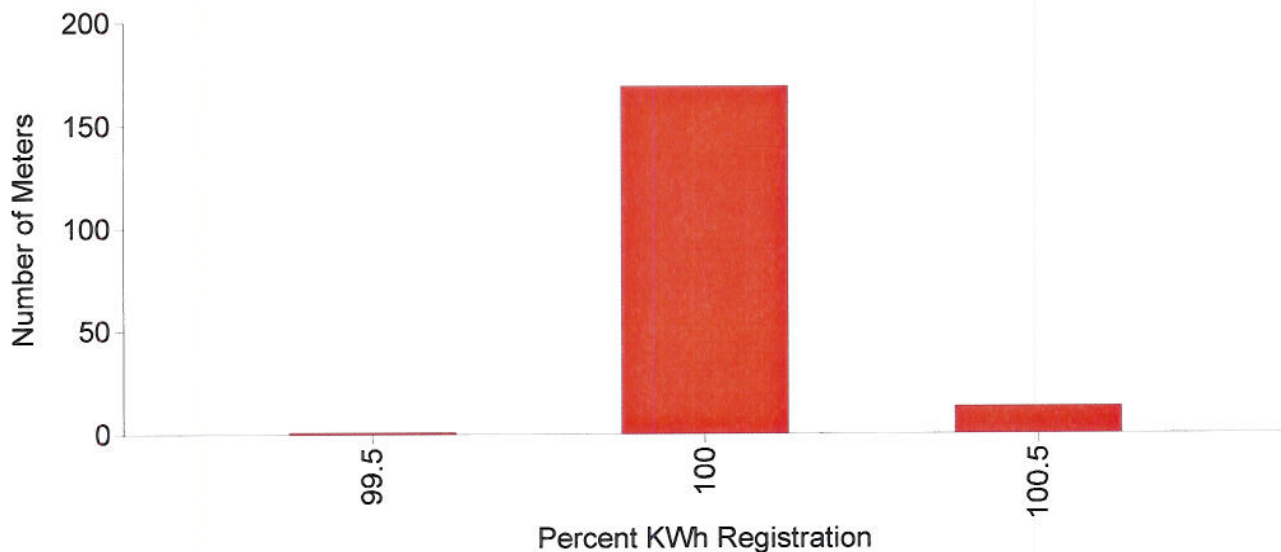
Number of Tests 98 - 102%: 183

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 22 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 23 Summary

#### Group Information

Manufacturer: ITR  
Watthour Meter Type(s): C1SR

PE Type Code(s): S27

Meter Classification: MMR

Methodology: Double Sampling Phase 1

Population: 275429

Sample Size: 182

#### Full Load Test Summary

Mean: 100.027

Standard Deviation: 0.1016

Number of Tests > 102%: 0

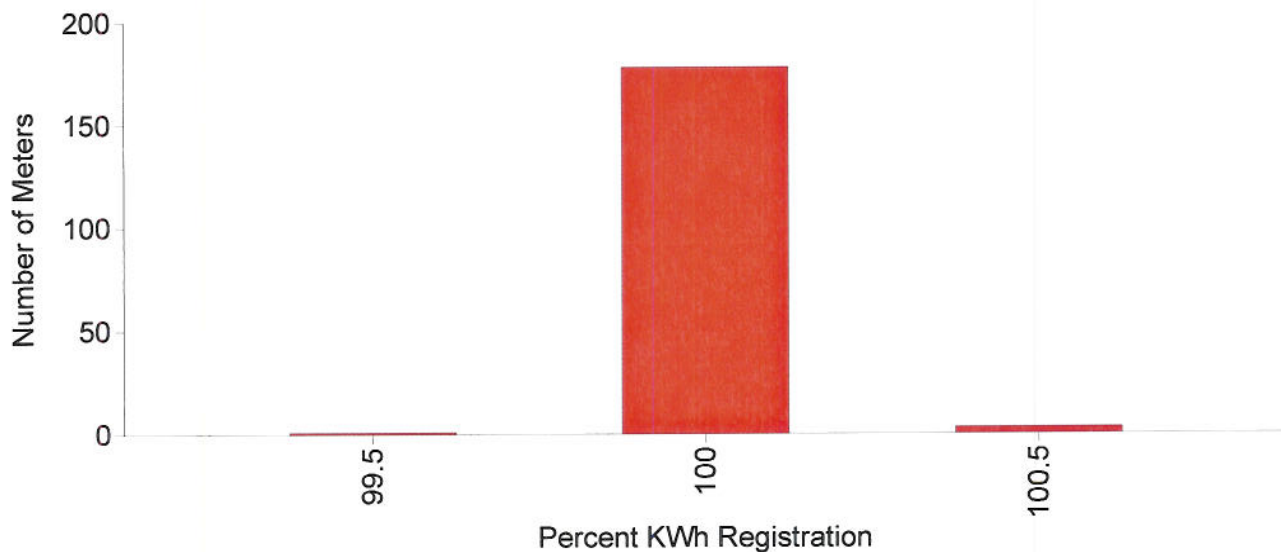
Number of Tests 98 - 102%: 182

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 23 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 24 Summary

#### Group Information

Manufacturer: ITR  
Watthour Meter Type(s): C1SR

PE Type Code(s): S28

Meter Classification: MMR  
Methodology: Double Sampling Phase 1  
Population: 250449  
Sample Size: 184

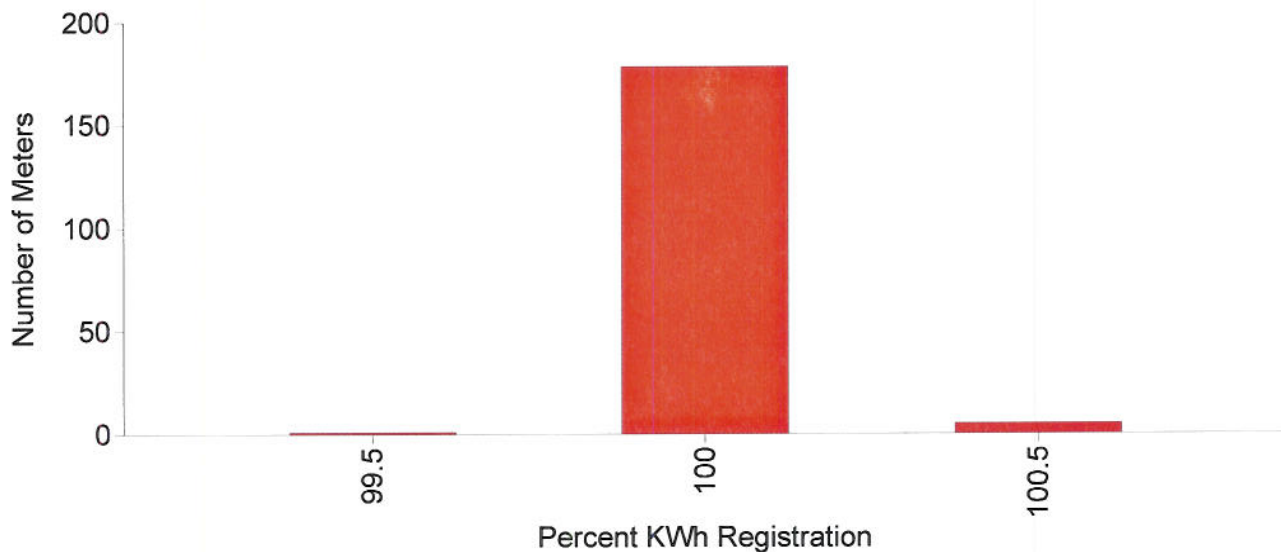
#### Full Load Test Summary

Mean: 100.037  
Standard Deviation: 0.1053  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 184  
Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 24 Meter Accuracies



## Progress Energy - Carolinas

### SELECTIVE SAMPLE

#### Watthour Meter Group 25 Summary

##### Group Information

Manufacturer: ITR

Watthour Meter Type(s): C1SR

PE Type Code(s): S29

Meter Classification: MMR

Methodology: Double Sampling Phase 1

Population: 268078

Sample Size: 185

##### Full Load Test Summary

Mean: 99.462

Standard Deviation: 7.2595

Number of Tests > 102%: 0

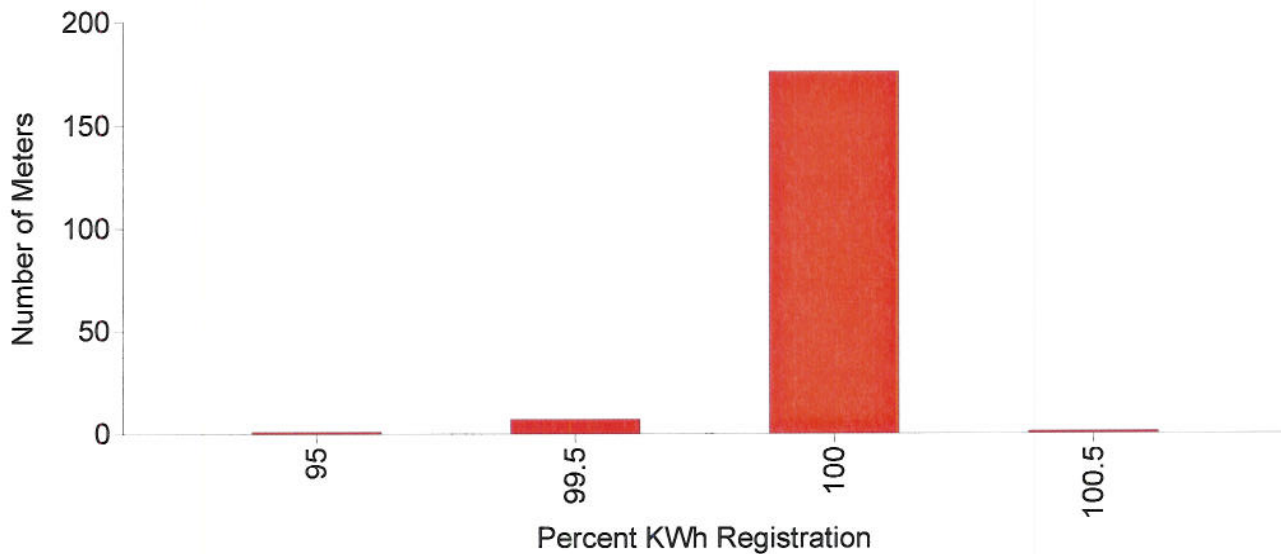
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 1

##### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

#### Histogram of Group 25 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 26 Summary

#### Group Information

Manufacturer: ITR  
Watthour Meter Type(s): C1SR

PE Type Code(s): S30

Meter Classification: MMR

Methodology: Double Sampling Phase 1

Population: 122263

Sample Size: 184

#### Full Load Test Summary

Mean: 100.006

Standard Deviation: 0.1004

Number of Tests > 102%: 0

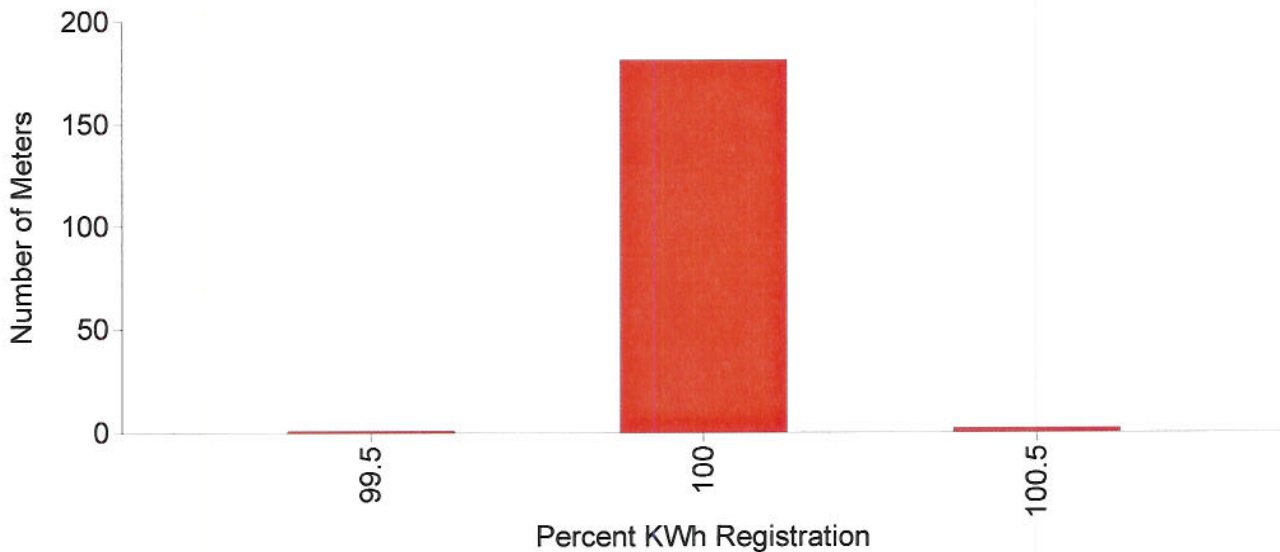
Number of Tests 98 - 102%: 184

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 26 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 33 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): EV-1,I 50S,I 70S,I50S,IL70S,IL70S/1,IL70S/2,IM 70S,IM70S,IM70S/2,IRM  
70S,IRM70S,IRM-70S,IRM70S/2,IRMW 70S,KV,KV2C

PE Type Code(s): E30,L05,E47,E36,LB7,LG7,LL5,L78,E44,E43,E35,E37,LC6,E41,E34,LG4,E48,  
E29,E46,E42,LM8,E52,E39,LE6,LG9,E45,E40,E32,E49,LC7,L85,L84,L60,E51,E50,  
E33

Meter Classification: TO/ND/ED

Methodology: Double Sampling Phase 1

Population: 19829

Sample Size: 178

#### Full Load Test Summary

Mean: 99.995

Standard Deviation: 0.3412

Number of Tests > 102%: 1

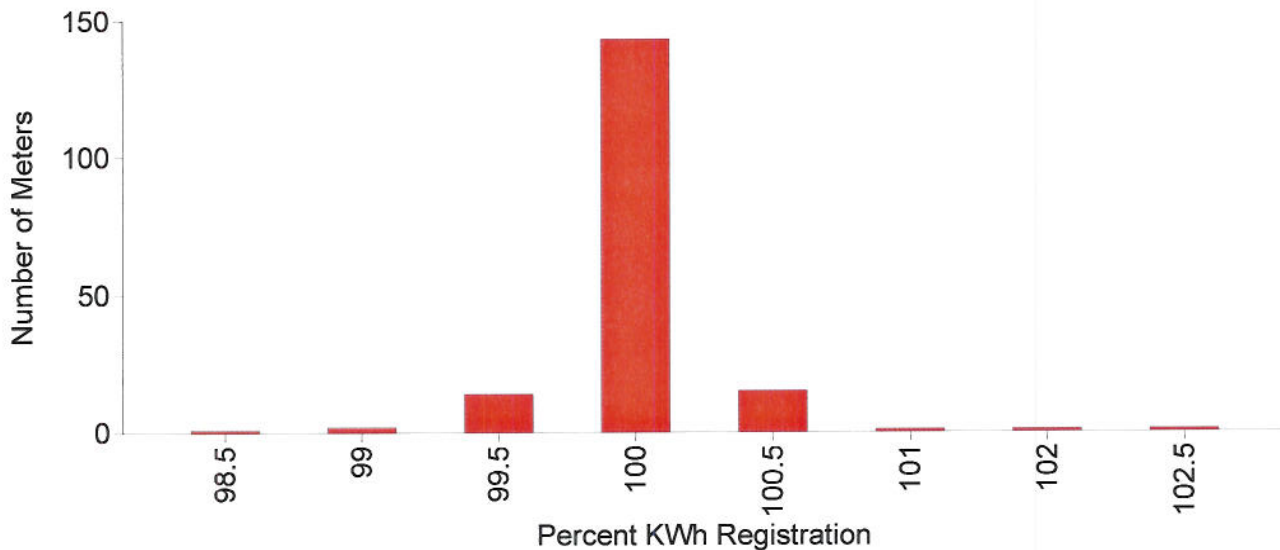
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 33 Meter Accuracies



## Progress Energy - Carolinas

### SELECTIVE SAMPLE

#### Watthour Meter Group 35 Summary

##### Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1D,A1D+,A1T+,A1TLQ+,AIT+,AITLQ+

PE Type Code(s): Y43,H22,H32,TG7,TE4,H28,H34,TH5,H24,H31,TG6,H33,H21,TE6,H30,H26,TE5,  
H37,H23,Y48,TG9,TF2,TF1,TE9,TE8,TE7,H36,H35,H29,H27,H25,Y63

Meter Classification: NDS1NI

Methodology: Double Sampling Phase 1

Population: 5211

Sample Size: 183

##### Full Load Test Summary

Mean: 99.997

Standard Deviation: 0.0482

Number of Tests > 102%: 0

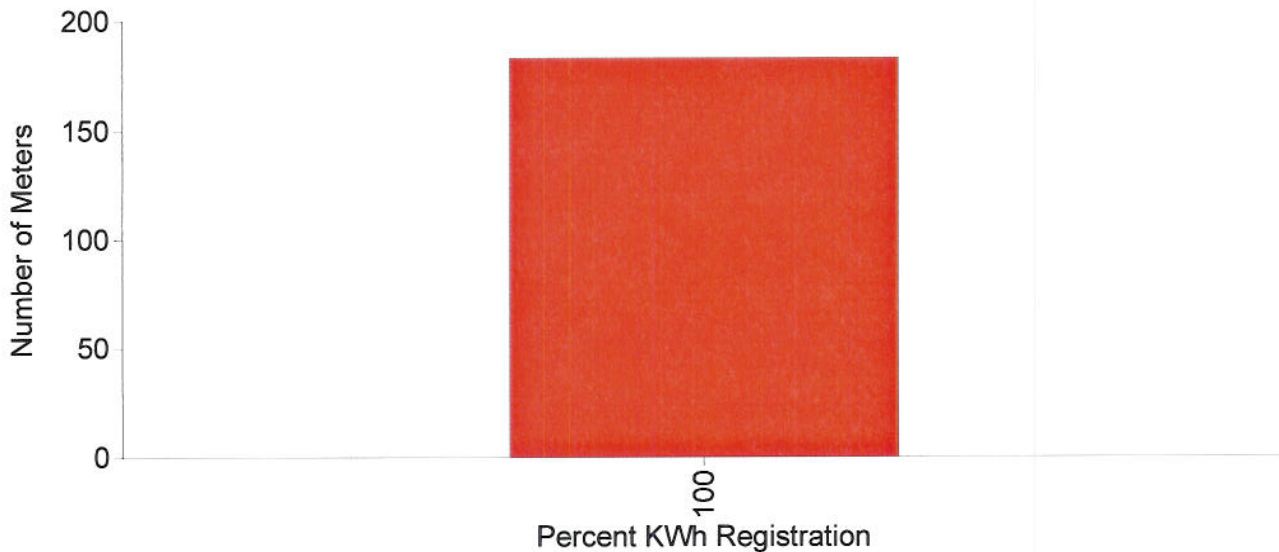
Number of Tests 98 - 102%: 183

Number of Tests < 98%: 0

##### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

#### Histogram of Group 35 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 36 Summary

#### Group Information

Manufacturer: GE  
Watthour Meter Type(s): I-210

PE Type Code(s): G42

Meter Classification: DS3NI

Methodology: Double Sampling Phase 1

Population: 16085

Sample Size: 182

#### Full Load Test Summary

Mean: 99.989

Standard Deviation: 0.0941

Number of Tests > 102%: 0

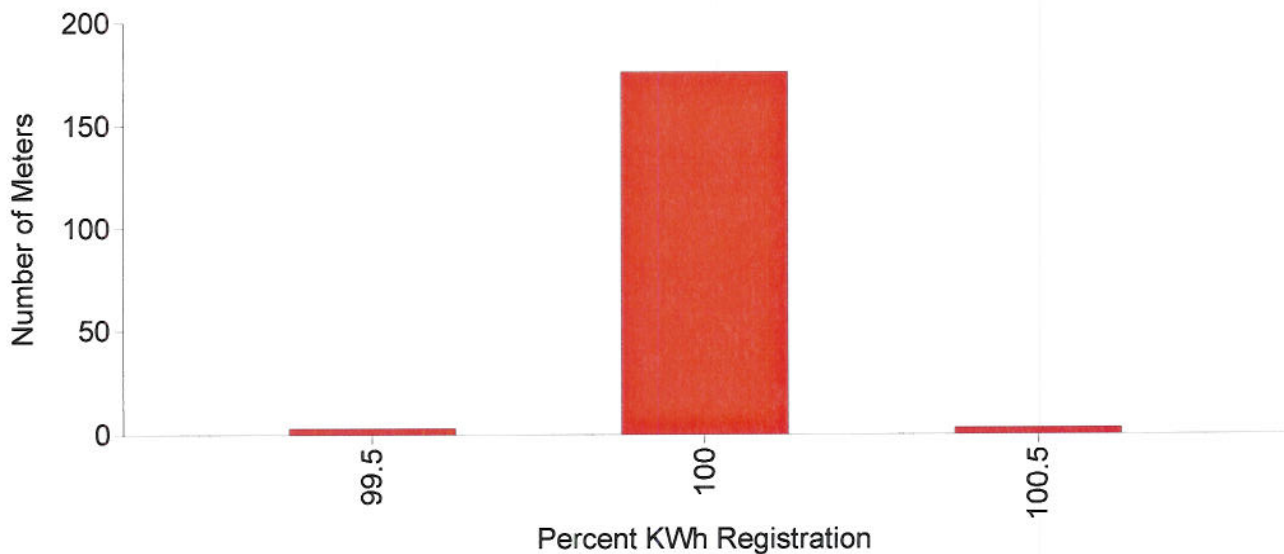
Number of Tests 98 - 102%: 182

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 36 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 37 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): EV1,EV-1,KV,KV2C,V 62S,V 65S,V 66S,V612S,VM 62S,VRM62S,VW 62S,VW66S

PE Type Code(s): LR8,LT6,LT3,R73,R81,LN5,R22,LM9,R51,R75,R45,R43,R77,R76,R74,R39,R71,  
R40

Meter Classification: NDS1NI

Methodology: Double Sampling Phase 1

Population: 4185

Sample Size: 182

#### Full Load Test Summary

Mean: 99.982

Standard Deviation: 0.1827

Number of Tests > 102%: 0

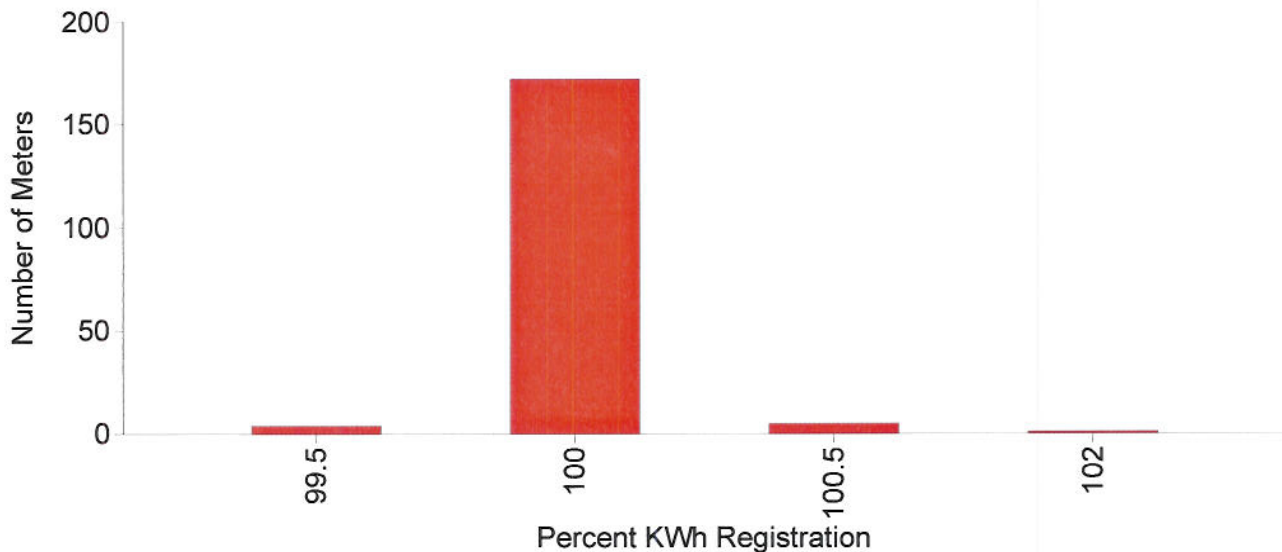
Number of Tests 98 - 102%: 182

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 37 Meter Accuracies



# Progress Energy - Carolinas

## SELECTIVE SAMPLE

### Watthour Meter Group 46 Summary

#### Group Information

Manufacturer: ITR

Watthour Meter Type(s): CN1SR,CP1SR,SS4S1T

PE Type Code(s): N16,N17,N18

Meter Classification: DS3NI

Methodology: Double Sampling Phase 1

Population: 32868

Sample Size: 177

#### Full Load Test Summary

Mean: 100.012

Standard Deviation: 0.0751

Number of Tests > 102%: 0

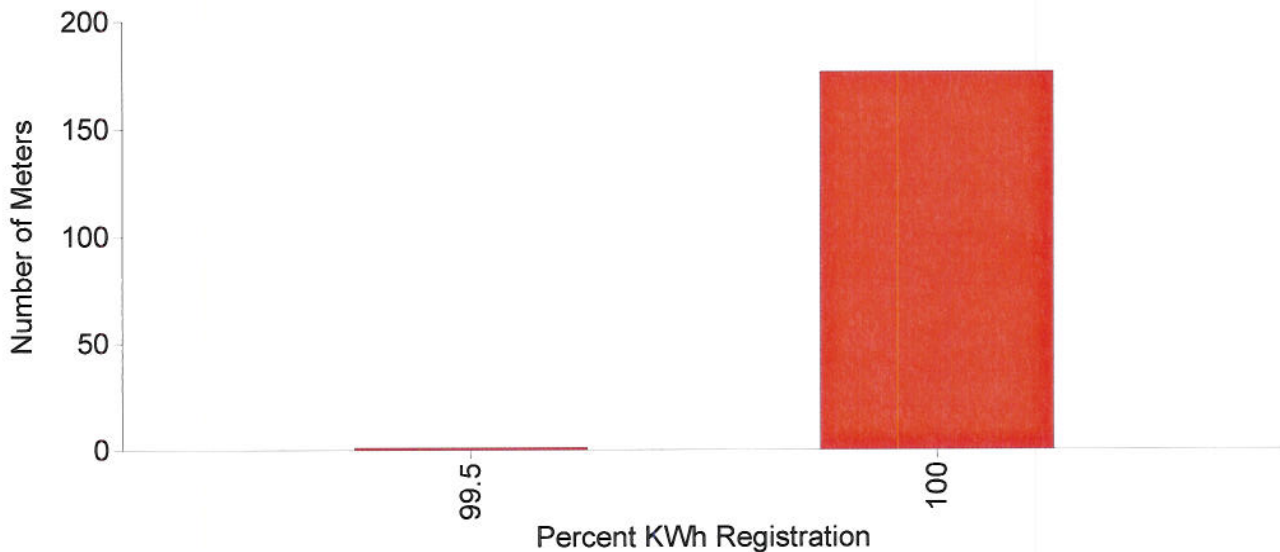
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Sample test since the number of fast watthour meters is less than 2

### Histogram of Group 46 Meter Accuracies



# **2008 Periodic Test Program**

## Progress Energy – Carolinas

### 2008 Watthour Meter Periodic Tests Watthour Meter Groupings

<b>Manufacturer</b>	<b>Type</b>	<b>Group</b>	<b>Test Plan</b>	<b>Sample Size</b>	<b>Sample Conclusion</b>
General Electric	KV2C	802	Periodic-Field Test	58	N/A*
ABB	D4	804	Periodic-Field Test	32	N/A*
General Electric	I70	805	Periodic-Field Test	5	N/A*
General Electric	VRM65, VRM66	812	Periodic-Field Test	11	N/A*
General Electric	VRM63, VRM64	813	Periodic-Field Test	67	N/A*
General Electric	VW63, VW64	814	Periodic-Field Test	1	N/A*
General Electric	VRMW64	816	Periodic-Field Test	2	N/A*
General Electric	V63, V64	818	Periodic-Field Test	114	Passes Test
ABB	D4-2, D5-2, D5-3, AB-2, AB-3	827	Periodic-Field Test	4	N/A*
ABB	D5-2E, D5-3E	828	Periodic-Field Test	5	N/A*
Sangamo	SL4	833	Periodic-Field Test	3	N/A*
ABB	A1D, A1R, A1T	839	Periodic-Field Test	16	N/A*
Transdata	EMS60, EMS96, MARK-V	840	Periodic-Field Test	74	N/A*
General Electric	EV2, EV5, EV6	844	Periodic-Field Test	14	N/A*
General Electric	EV3, EV4	845	Periodic-Field Test	302	Passes Test
ABB	A1D, A1R	846	Periodic-Field Test	486	Passes, Test
General Electric	KV	847	Periodic-Field Test	633	Fails Test
Landis & Gyr	AX4	848	Periodic-Field Test	267	Passes Test
General Electric	KV	849	Periodic-Field Test	99	Passes Test
General Electric	KV2C	861	Periodic-Field Test	326	Passes Test
ABB	D5SE	901	Periodic-Shop Test	165	Passes Test
Sangamo	J5	902	Periodic-Shop Test	49	N/A*

Sangamo	SL5D	903	Periodic-Shop Test	1	N/A*
General Electric	VM65, VM66	915	Periodic-Shop Test	25	N/A*
ABB	D5-7E, D5-8E	924	Periodic-Shop Test	9	N/A*
Landis & Gyr	AX4	934	Periodic-Shop Test	173	N/A*
General Electric	V63, V64, V65	936	Periodic-Shop Test	1	N/A*
General Electric	V63, V64	937	Periodic-Shop Test	238	N/A*
ABB	D5-2E, D5-3E	938	Periodic-Shop Test	20	N/A*

\* Requires 75 tests to determine pass-fail criteria

# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 901 Summary

#### Group Information

Manufacturer: ABB

Watthour Meter Type(s): D5SE

PE Type Code(s): T73,T75,T78,T84

Meter Classification: EDT1NI

Methodology: Periodic Test

Population: 667

Sample Size: 165

#### Full Load Test Summary

Mean: 100.179

Standard Deviation: 0.2601

Number of Tests > 102%: 0

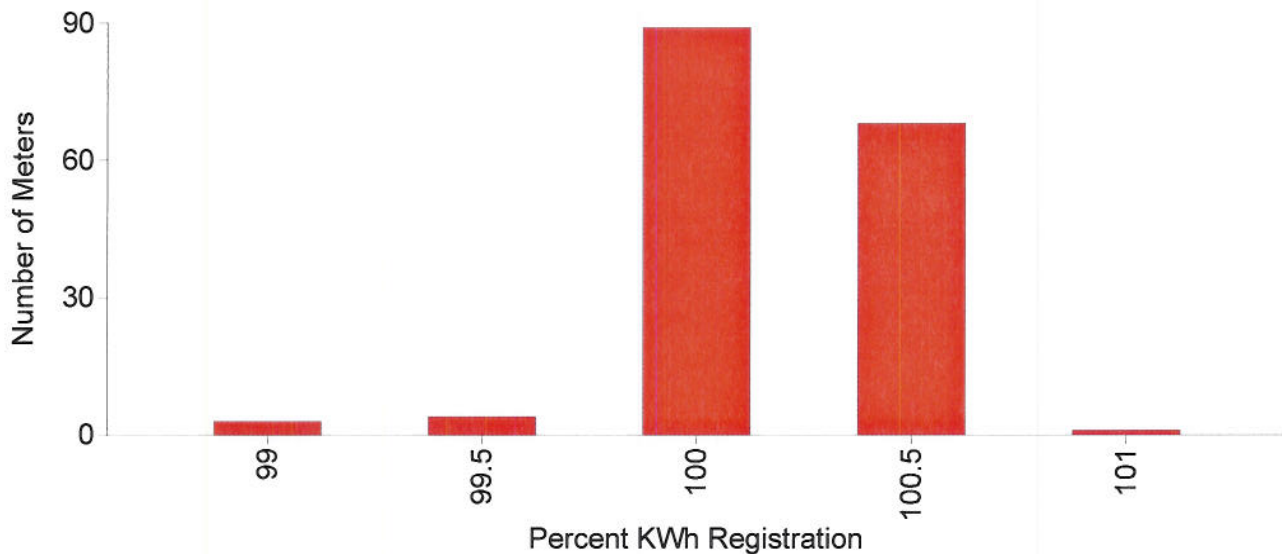
Number of Tests 98 - 102%: 165

Number of Tests < 98%: 0

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 1

### Histogram of Group 901 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 902 Summary

#### Group Information

Manufacturer: SAN

Watthour Meter Type(s): J5

PE Type Code(s): A16,A17,A18,A21,M26

Meter Classification: ED\*1\*I

Methodology: Periodic Test

Population: 225

Sample Size: 49

#### Full Load Test Summary

Mean: 99.95

Standard Deviation: 0.4187

Number of Tests > 102%: 0

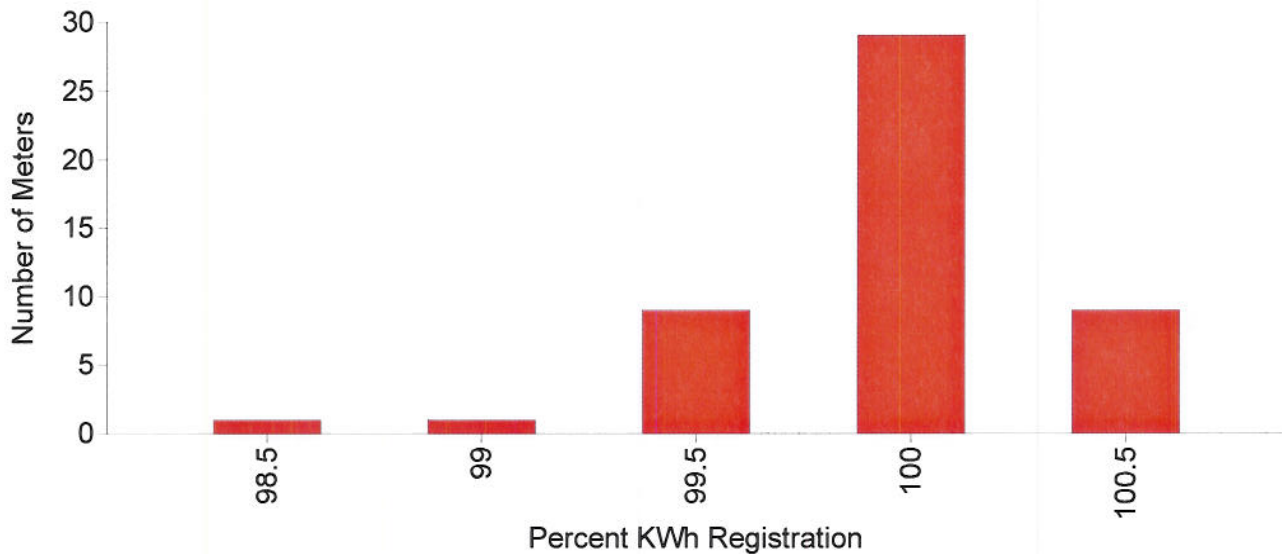
Number of Tests 98 - 102%: 49

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 902 Meter Accuracies



# Progress Energy - Carolinas

SHOP PERIODIC

## Watthour Meter Group 903 Summary

### Group Information

Manufacturer: SAN

Watthour Meter Type(s): SL5SD

PE Type Code(s): N14

Meter Classification: EDS3NI

Methodology: Periodic Test

Population: 17

Sample Size: 1

### Full Load Test Summary

Mean: 100.6

Standard Deviation: 0

Number of Tests > 102%: 0

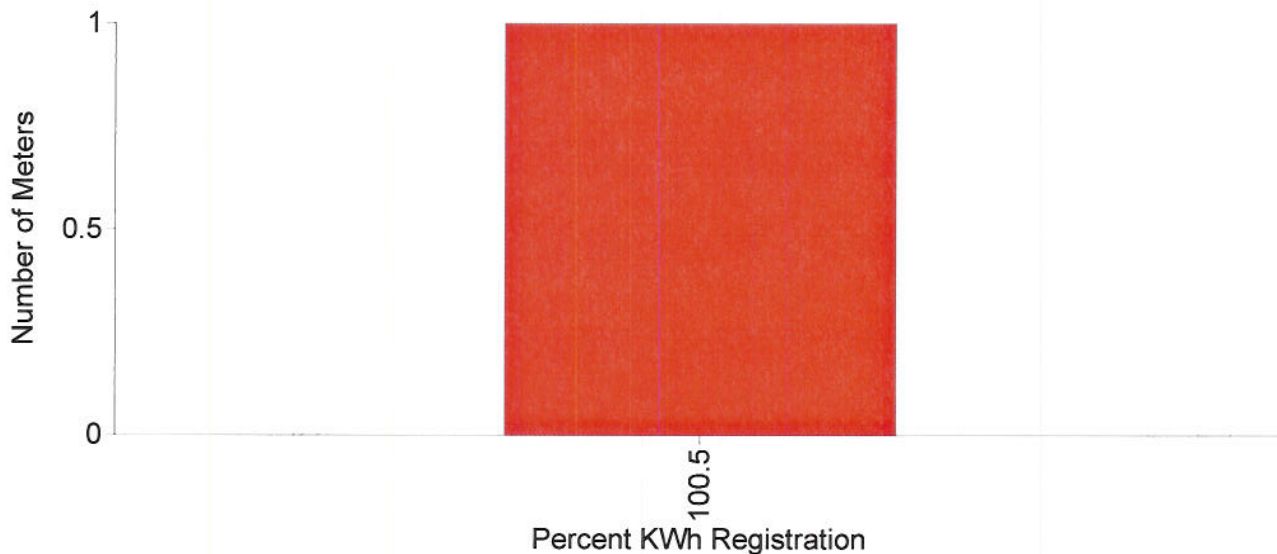
Number of Tests 98 - 102%: 1

Number of Tests < 98%: 0

### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

## Histogram of Group 903 Meter Accuracies



## Progress Energy - Carolinas

### SHOP PERIODIC

#### Watthour Meter Group 915 Summary

##### Group Information

Manufacturer: GE

Watthour Meter Type(s): VM65,VM66

PE Type Code(s): R68,R69,R70,R86

Meter Classification: EDS3NI

Methodology: Periodic Test

Population: 362

Sample Size: 25

##### Full Load Test Summary

Mean: 99.993

Standard Deviation: 0.3722

Number of Tests > 102%: 0

Number of Tests 98 - 102%: 25

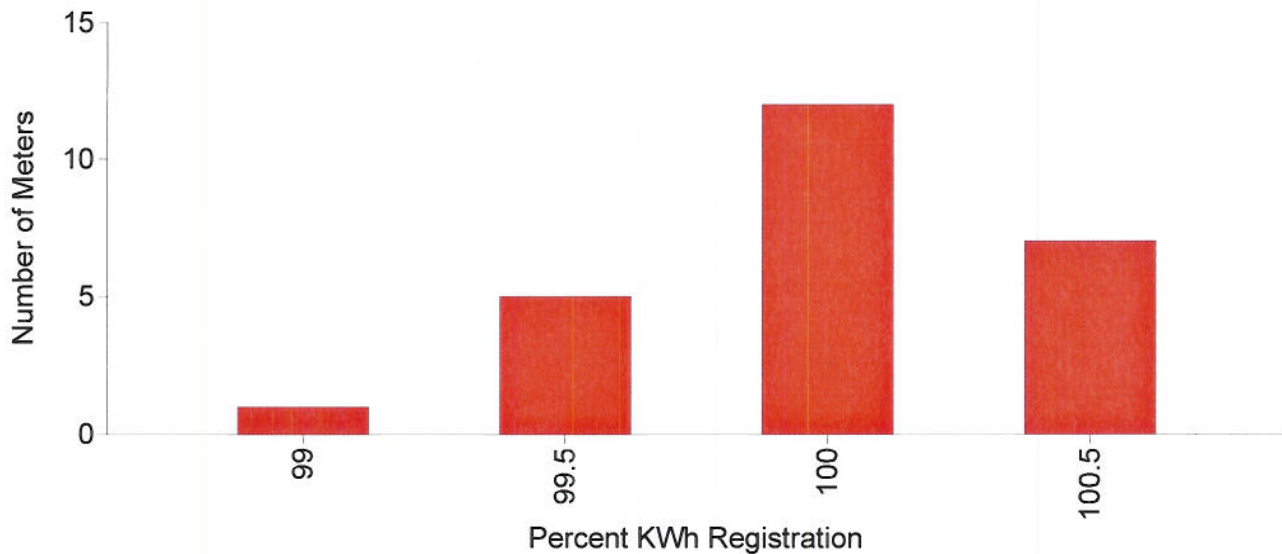
Number of Tests < 98%: 0

##### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

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#### Histogram of Group 915 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 924 Summary

#### Group Information

Manufacturer: ABB

Watthour Meter Type(s): D5S 7E,D5S 8E

PE Type Code(s): Y35,Y36

Meter Classification: EDS3NI

Methodology: Periodic Test

Population: 111

Sample Size: 9

#### Full Load Test Summary

Mean: 100.137

Standard Deviation: 0.3496

Number of Tests > 102%: 0

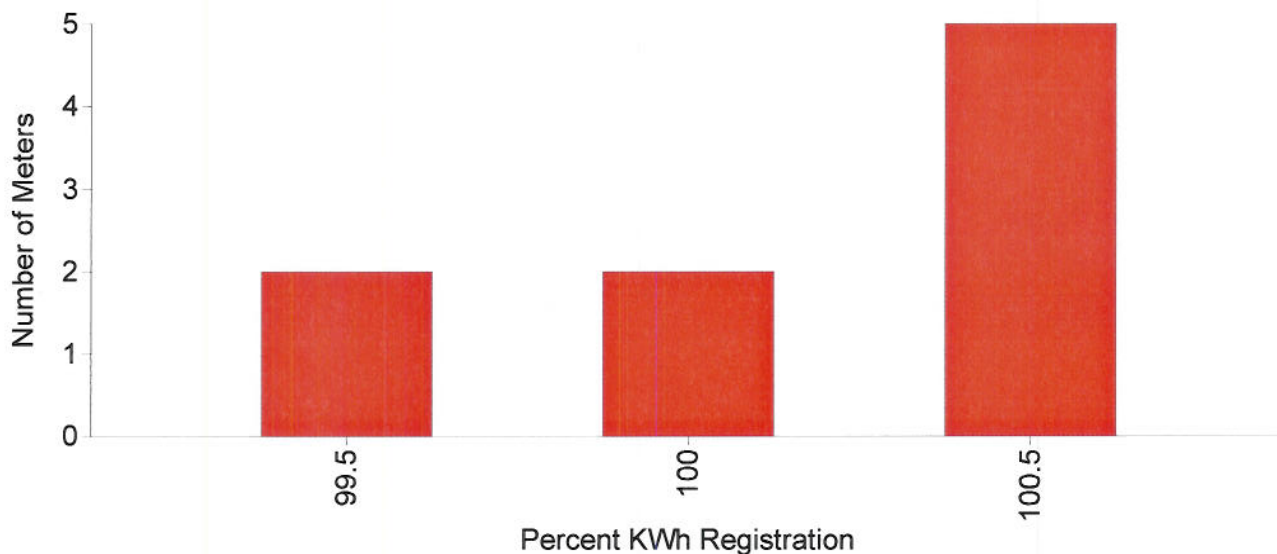
Number of Tests 98 - 102%: 9

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 924 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 934 Summary

#### Group Information

Manufacturer: L&G

Watthour Meter Type(s): AXS4,AXSR4,ASX4E

PE Type Code(s): C10,C11,C12,C16,C17

Meter Classification: S\*S3NI

Methodology: Periodic Test

Population: 2712

Sample Size: 173

#### Full Load Test Summary

Mean: 99.812

Standard Deviation: 2.6975

Number of Tests > 102%: 0

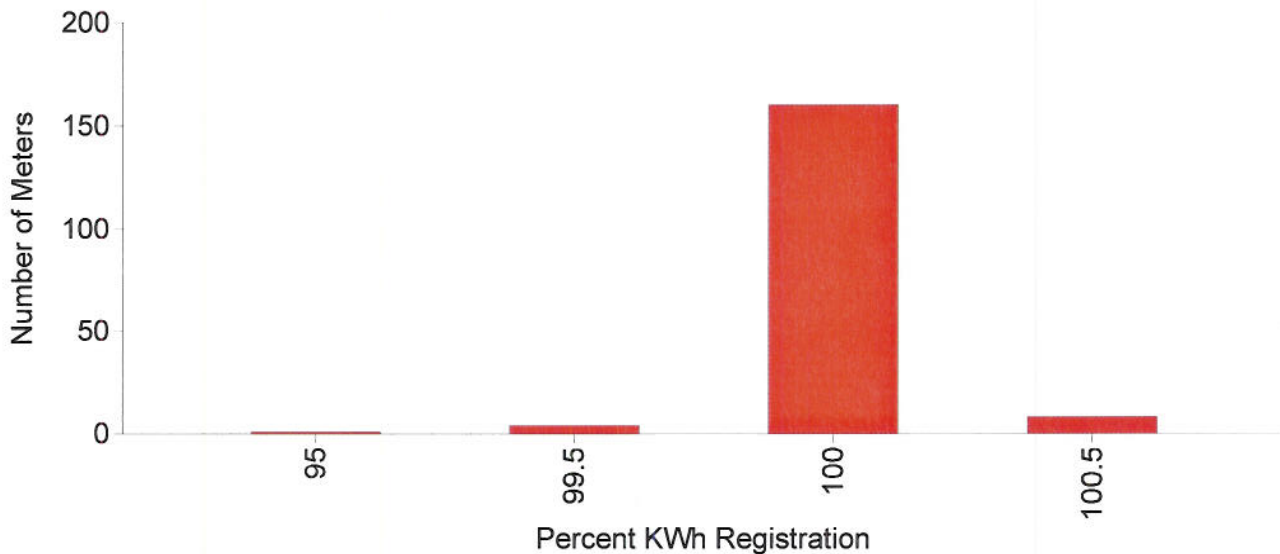
Number of Tests 98 - 102%: 172

Number of Tests < 98%: 1

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 2

### Histogram of Group 934 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 936 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): VMW63, VMW65, VMW64

PE Type Code(s): LC9, LD7, LH2, LH5

Meter Classification: EDT3WI

Methodology: Periodic Test

Population: 1

Sample Size: 1

#### Full Load Test Summary

Mean: 100.52

Standard Deviation: 0

Number of Tests > 102%: 0

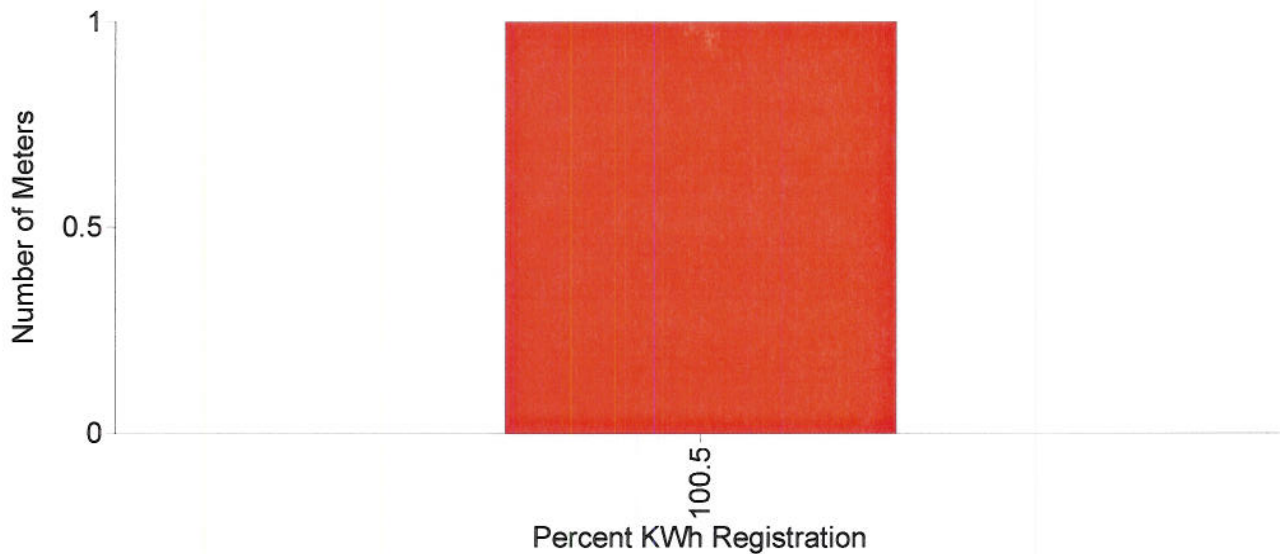
Number of Tests 98 - 102%: 1

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 936 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 937 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): V63,V64

PE Type Code(s): LB3,LB4,LB5,LC1,LC5,LD1,LD4,LD5,LF2,LF3,LF4,LF5,LF6,LF9,LJ4

Meter Classification: EDT3NI

Methodology: Periodic Test

Population: 3661

Sample Size: 238

#### Full Load Test Summary

Mean: 98.579

Standard Deviation: 8.654

Number of Tests > 102%: 0

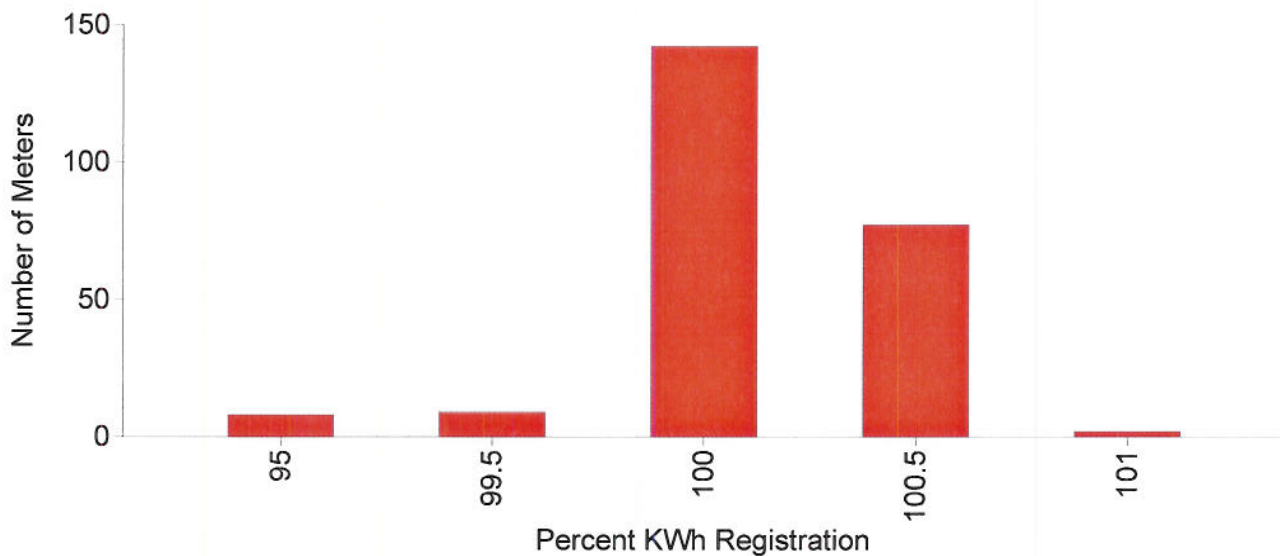
Number of Tests 98 - 102%: 230

Number of Tests < 98%: 8

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 5

### Histogram of Group 937 Meter Accuracies



# Progress Energy - Carolinas

## SHOP PERIODIC

### Watthour Meter Group 938 Summary

#### Group Information

Manufacturer: ABB

Watthour Meter Type(s): D52E,D53E

PE Type Code(s): T71,T72,T80,T96

Meter Classification: EDT3\*I

Methodology: Periodic Test

Population: 295

Sample Size: 20

#### Full Load Test Summary

Mean: 98.618

Standard Deviation: 7.2124

Number of Tests > 102%: 0

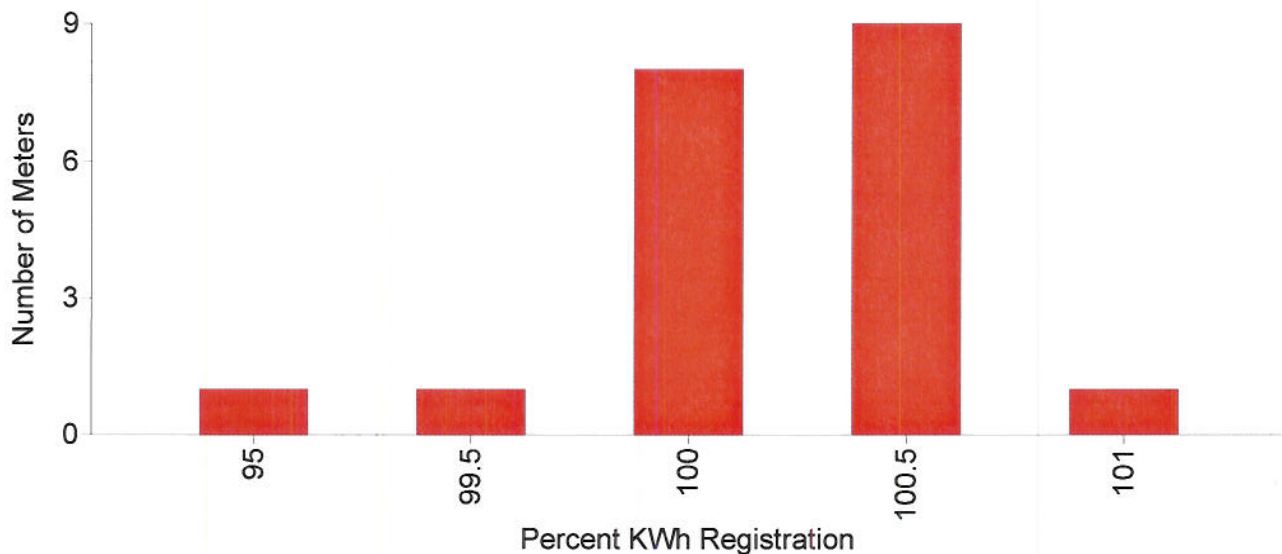
Number of Tests 98 - 102%: 19

Number of Tests < 98%: 1

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 938 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 802 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): KV2C

PE Type Code(s): LV3,LV4,RB1,RB4,RB6

Meter Classification: S\*\*3NI

Methodology: Periodic Test

Population: 987

Sample Size: 58

#### Full Load Test Summary

Mean: 99.911

Standard Deviation: 0.0541

Number of Tests > 102%: 0

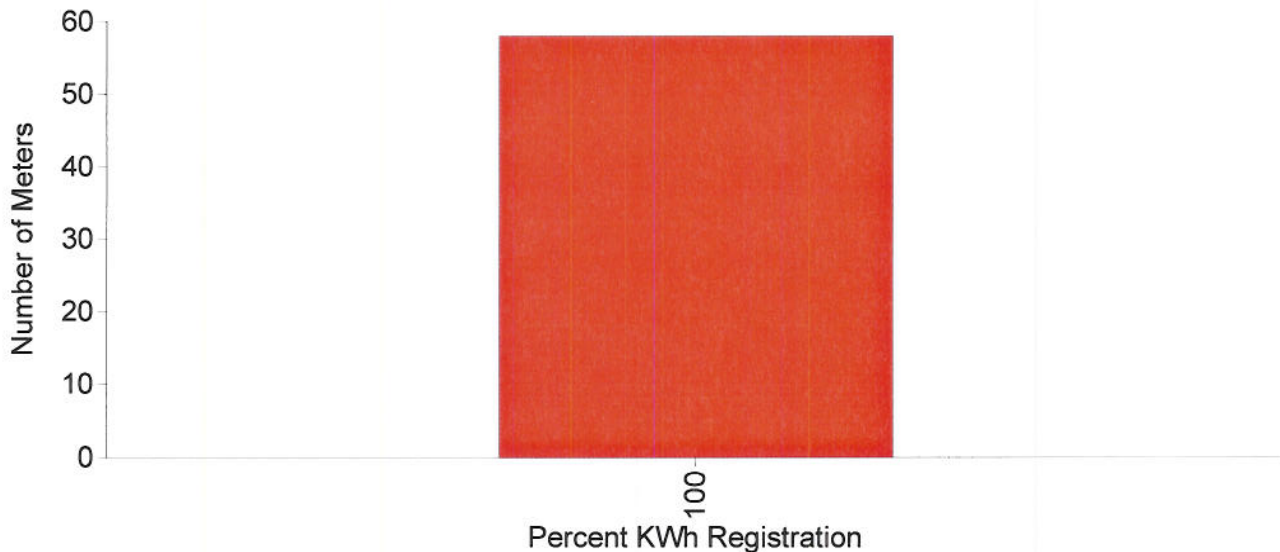
Number of Tests 98 - 102%: 58

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 802 Meter Accuracies



# Progress Energy - Carolinas

FIELD PERIODIC

## Watthour Meter Group 804 Summary

### Group Information

Manufacturer: ABB  
Watthour Meter Type(s): D4S

PE Type Code(s): T31

Meter Classification: NDT1NI  
Methodology: Periodic Test  
Population: 145  
Sample Size: 32

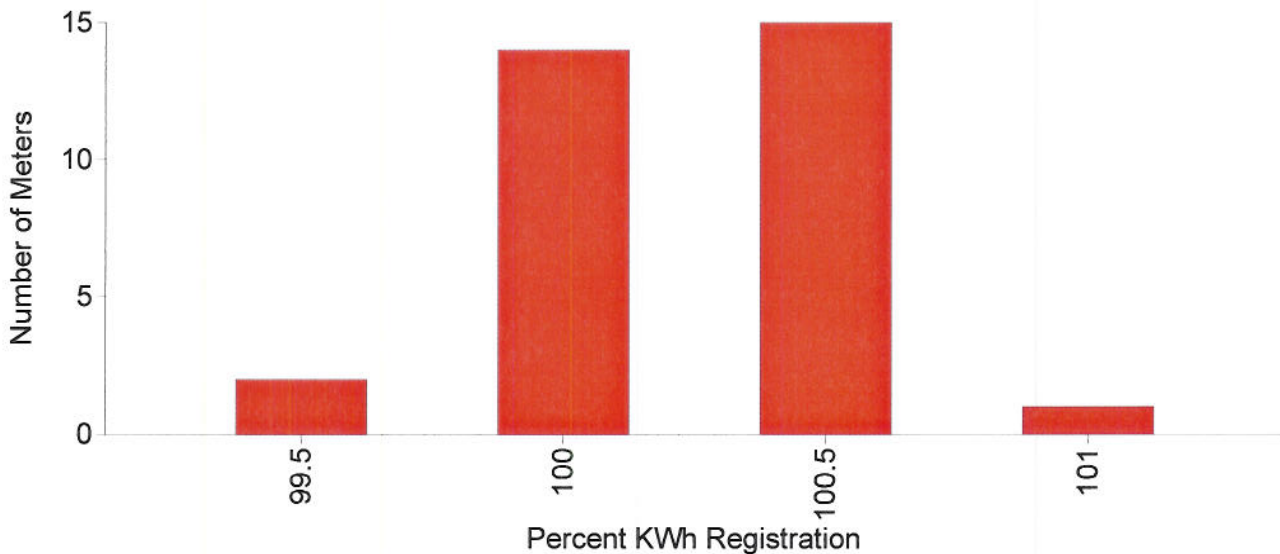
### Full Load Test Summary

Mean: 100.175  
Standard Deviation: 0.3159  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 32  
Number of Tests < 98%: 0

### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

Histogram of Group 804 Meter Accuracies



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 805 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): I70

PE Type Code(s): L78,L85

Meter Classification: NDT1NI  
Methodology: Periodic Test  
Population: 586  
Sample Size: 5

**Full Load Test Summary**

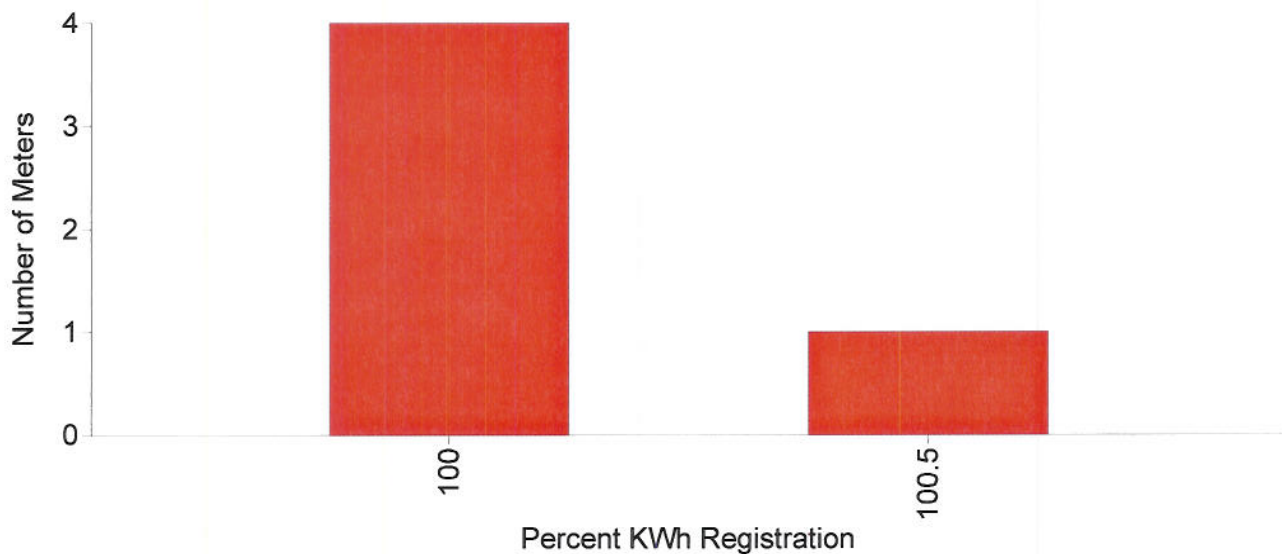
Mean: 100.118  
Standard Deviation: 0.2027  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 5  
Number of Tests < 98%: 0

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 805 Meter Accuracies**



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 812 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): VRM65,VRM66

PE Type Code(s): R72,R79,R82

Meter Classification: TOS3NI  
Methodology: Periodic Test  
Population: 146  
Sample Size: 11

**Full Load Test Summary**

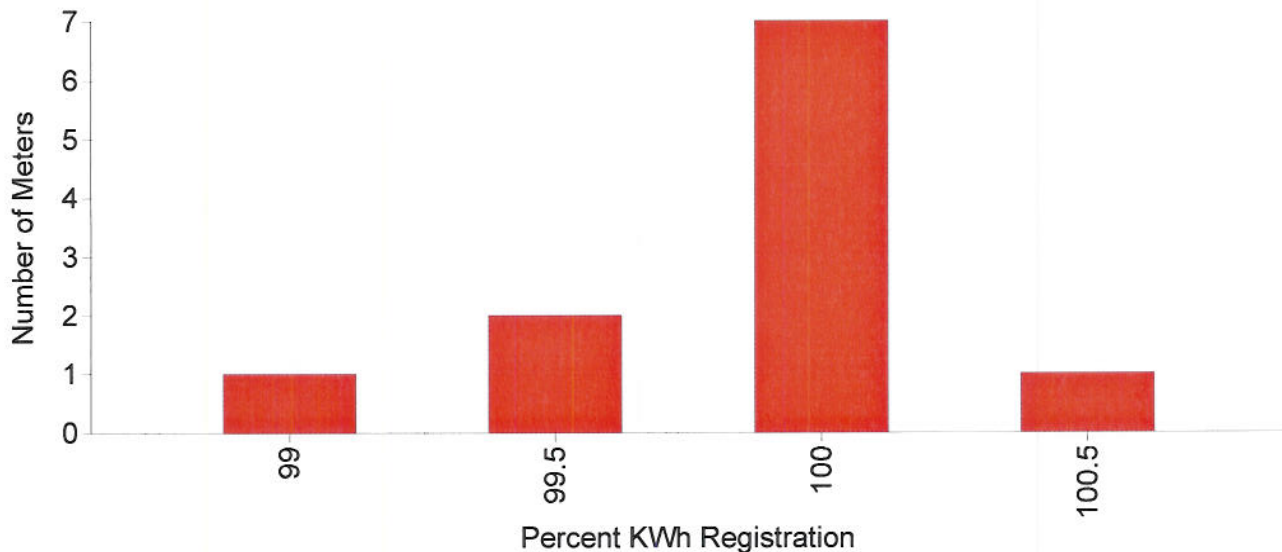
Mean: 99.849  
Standard Deviation: 0.3728  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 11  
Number of Tests < 98%: 0

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 812 Meter Accuracies**



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 813 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM63,VRM64

PE Type Code(s): LB9,LC8,LG6,LG8,LH8,LH9

Meter Classification: TOT3NI

Methodology: Periodic Test

Population: 1190

Sample Size: 67

#### Full Load Test Summary

Mean: 99.723

Standard Deviation: 3.949

Number of Tests > 102%: 0

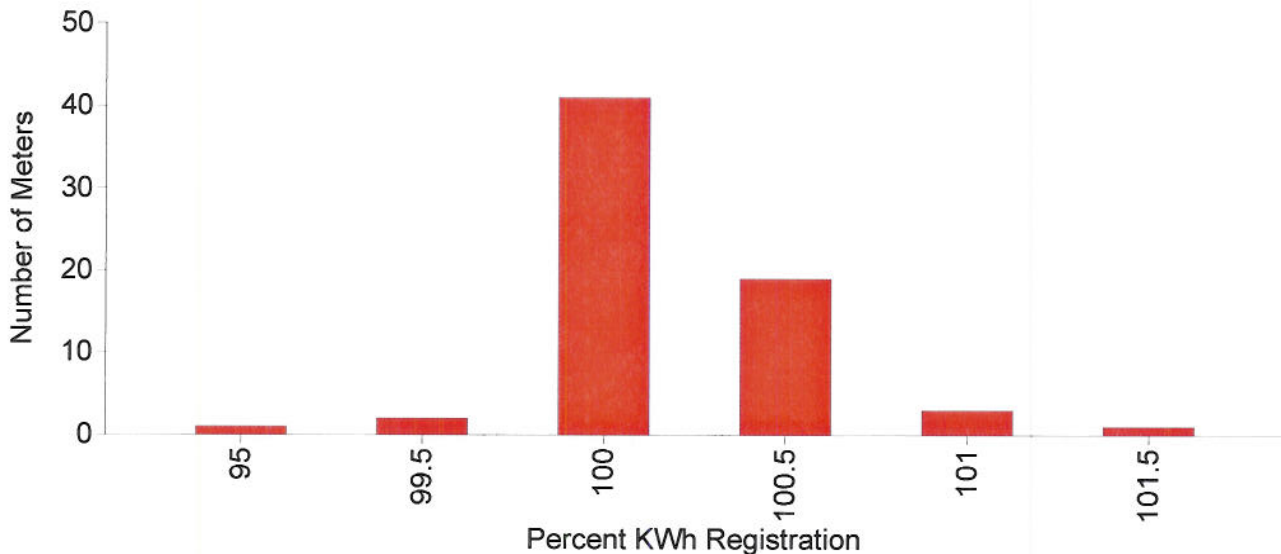
Number of Tests 98 - 102%: 66

Number of Tests < 98%: 1

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 813 Meter Accuracies



**Progress Energy - Carolinas**  
FIELD PERIODIC

Watthour Meter Group 814 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): VW63,VW64,VW65

PE Type Code(s): L26,L32,L35,L38,L41,L44,L47,L50,L52,L59,L71,L73,LD6,LD8,LE3,LH6,LH7

Meter Classification: NDT3WI  
Methodology: Periodic Test  
Population: 16  
Sample Size: 1

**Full Load Test Summary**

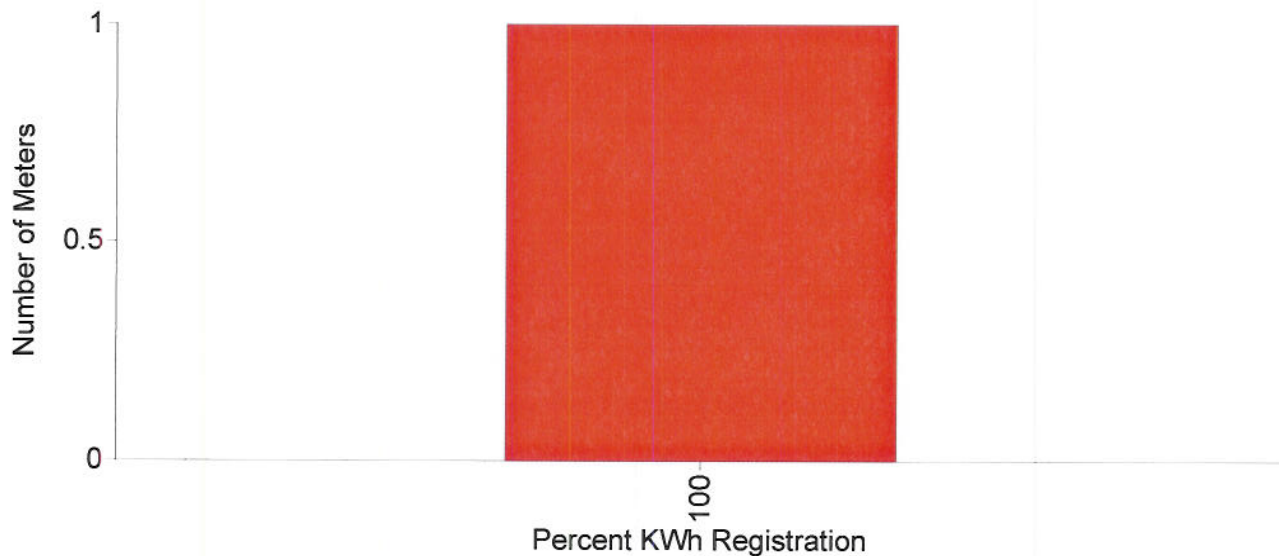
Mean: 100.23  
Standard Deviation: 0  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 1  
Number of Tests < 98%: 0

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 814 Meter Accuracies**



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 816 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): VRMW64A

PE Type Code(s): LB8,LG5

Meter Classification: TOT3WI  
Methodology: Periodic Test  
Population: 25  
Sample Size: 2

**Full Load Test Summary**

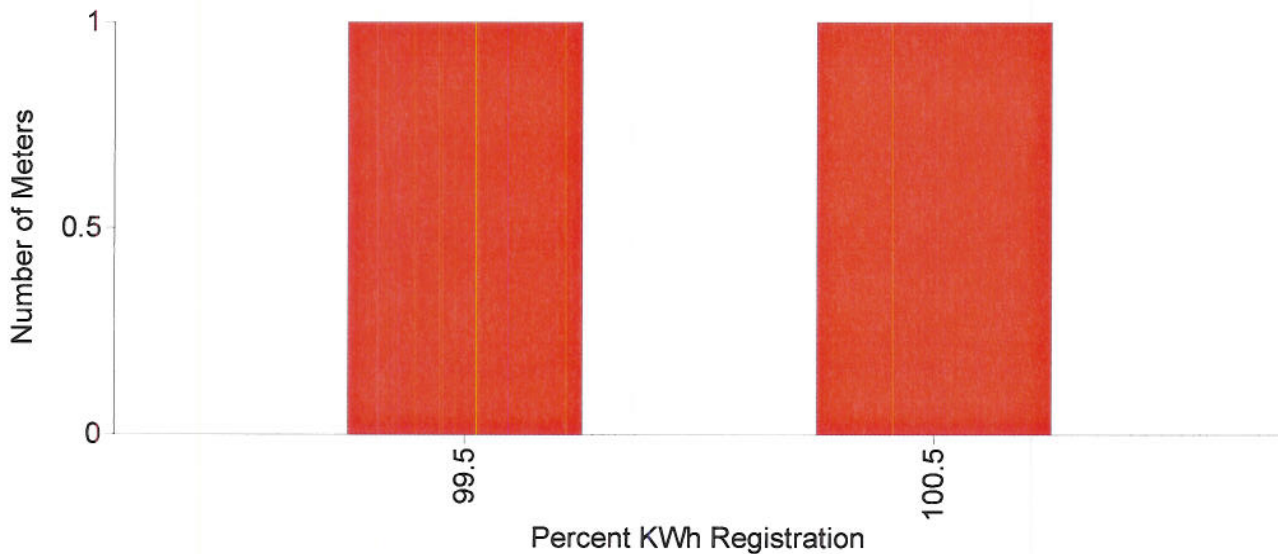
Mean: 100.025  
Standard Deviation: 0.495  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 2  
Number of Tests < 98%: 0

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 816 Meter Accuracies**



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 818 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): V63,V64

PE Type Code(s): L42,L45,L48,L64,LD2,LD3,LE7,LE8,LE9,LF1,LF7,LF8

Meter Classification: NDT3NI  
Methodology: Periodic Test  
Population: 1729  
Sample Size: 114

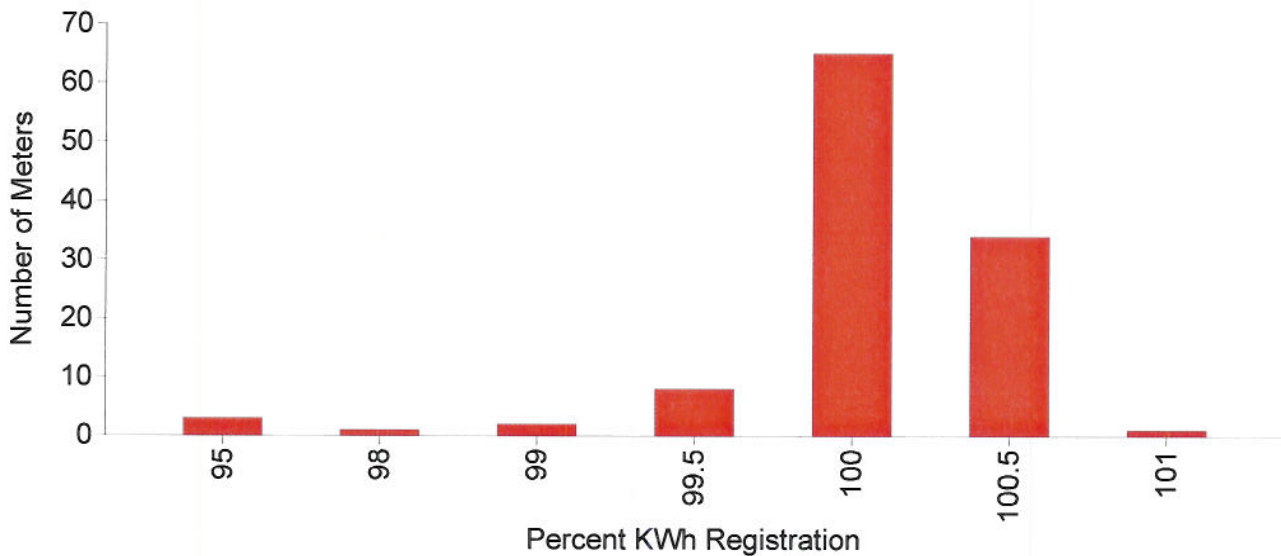
**Full Load Test Summary**

Mean: 98.779  
Standard Deviation: 7.8892  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 111  
Number of Tests < 98%: 3

**Group Test Summary**

This Group PASSES the Periodic test since the number of fast watthour meters is less than 1

**Histogram of Group 818 Meter Accuracies**



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 827 Summary

#### Group Information

Manufacturer: ABB

Watthour Meter Type(s): D4-2,D5-2,AB-2,AB-3,D5-3

PE Type Code(s): T03,T33,T42,T76,T77,T79,TB7,TB8,TB9,TC1,TC2,TC3

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 144

Sample Size: 4

#### Full Load Test Summary

Mean: 100.253

Standard Deviation: 0.195

Number of Tests > 102%: 0

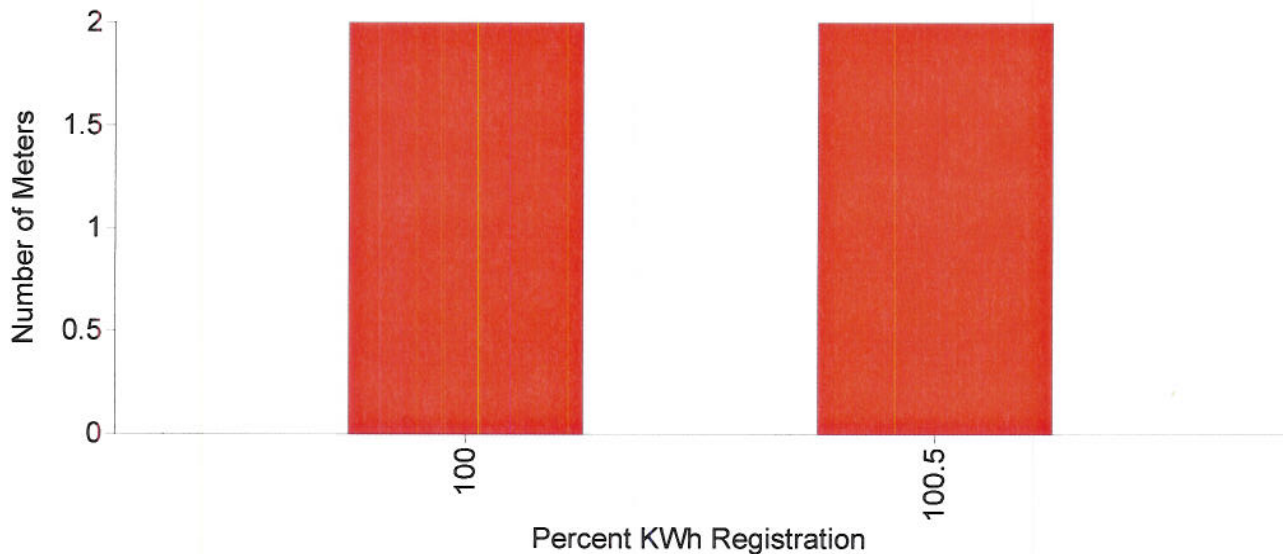
Number of Tests 98 - 102%: 4

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 827 Meter Accuracies



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 833 Summary

**Group Information**

Manufacturer: SANGAMO  
Watthour Meter Type(s): SL4

PE Type Code(s): M29

Meter Classification: NDT3NI  
Methodology: Periodic Test  
Population: 61  
Sample Size: 3

**Full Load Test Summary**

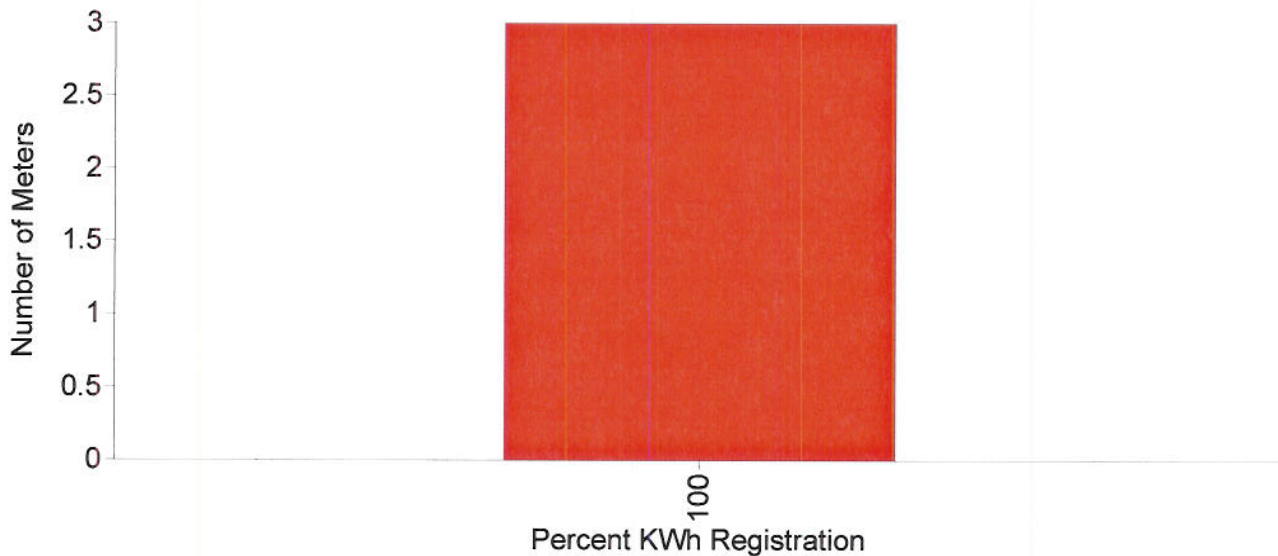
Mean: 100.047  
Standard Deviation: 0.0957  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 3  
Number of Tests < 98%: 0

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 833 Meter Accuracies**



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 839 Summary

#### Group Information

Manufacturer: ABB/ELSTER

Watthour Meter Type(s): A1D,A1D+,A1T+,A1TL+,A1RLQ+

PE Type Code(s): Y40,Y41,Y42,Y49,Y50,Y51,Y52,Y53,Y54,Y55,Y56,Y57,Y58,Y59,Y60,Y61,Y62,  
Y64,Y65

Meter Classification: S\*S3\*I

Methodology: Periodic Test

Population: 549

Sample Size: 16

#### Full Load Test Summary

Mean: 99.993

Standard Deviation: 0.0662

Number of Tests > 102%: 0

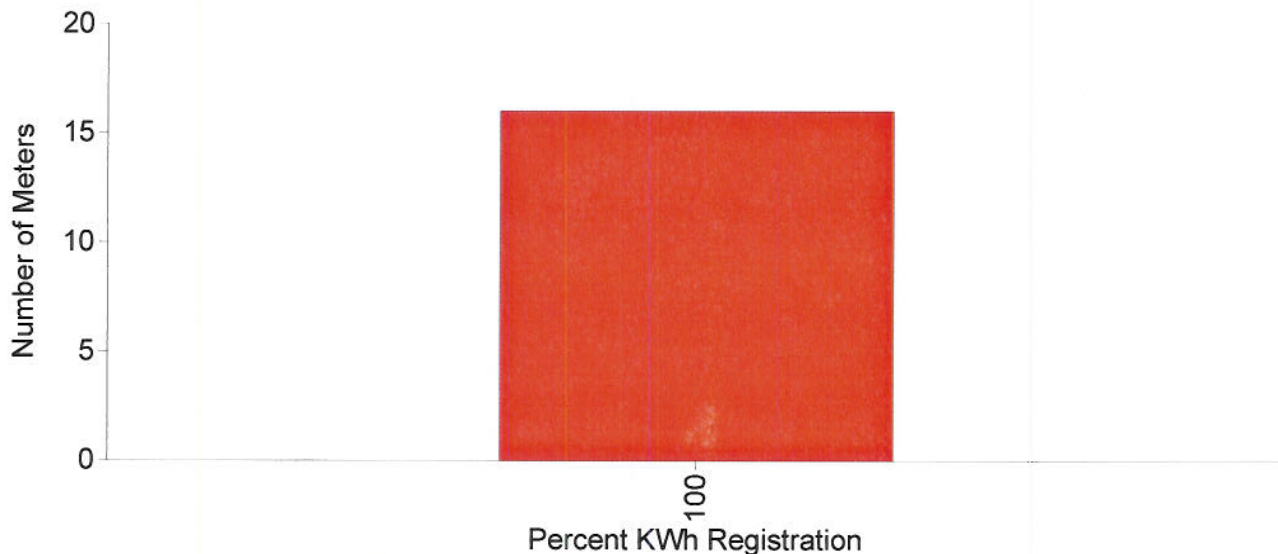
Number of Tests 98 - 102%: 16

Number of Tests < 98%: 0

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 839 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 840 Summary

#### Group Information

Manufacturer: TD

Watthour Meter Type(s): MARK V,EMS60,EMS96

PE Type Code(s): Z03,Z04,Z05,Z06,Z07,Z08,Z09,Z17,Z18,Z19,Z20,Z21,Z27,Z31,Z32,Z34,Z35,  
Z36,Z37,Z38,Z39,Z40,Z41,Z42,Z43,Z44,Z45,Z46,Z47,Z48,Z49,Z50,Z51,Z52,Z53,  
Z54,Z55,Z56,Z57,Z58,Z59,Z60,Z61,Z62,Z63,Z64,Z65,Z66,Z67,Z68,Z69,Z70,Z71,  
Z72,Z73,Z74,Z75,Z76,Z77,Z78

Meter Classification: SST3WI

Methodology: Periodic Test

Population: 1080

Sample Size: 74

#### Full Load Test Summary

Mean: 99.421

Standard Deviation: 3.8747

Number of Tests > 102%: 0

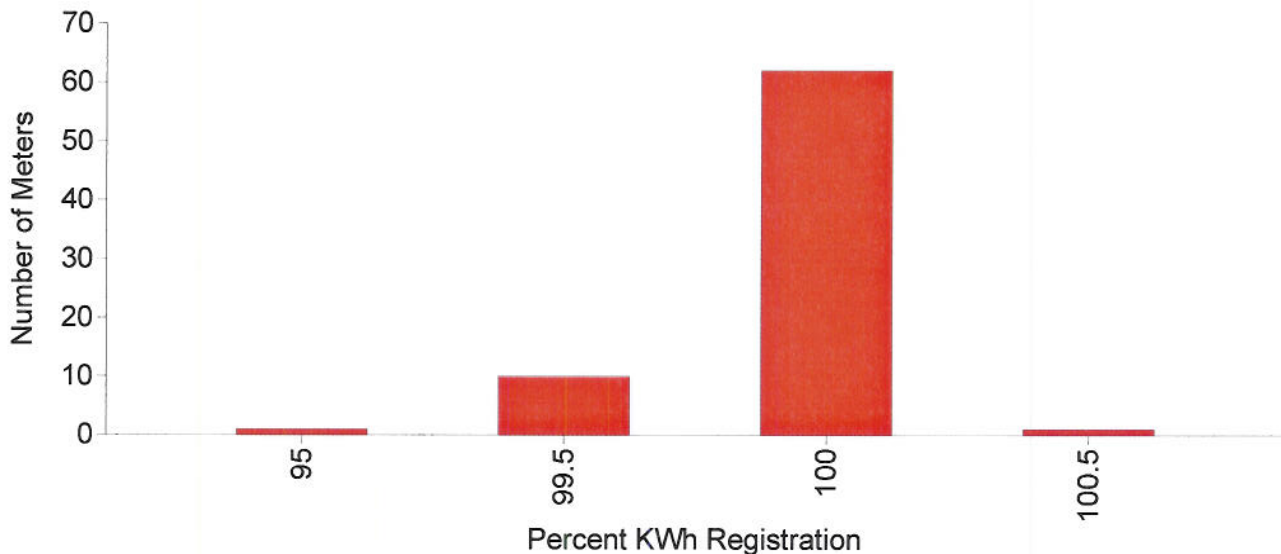
Number of Tests 98 - 102%: 73

Number of Tests < 98%: 1

#### Group Test Summary

The Sample Size is below the limit for a valid statistical sample

### Histogram of Group 840 Meter Accuracies



**Progress Energy - Carolinas**  
FIELD PERIODIC

Watthour Meter Group 844 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): EV2,EV5,EV6,

PE Type Code(s): R87,R88,R89,R90,R91,R92,R93,R94,R95

Meter Classification: S\*S\*NI  
Methodology: Periodic Test  
Population: 279  
Sample Size: 14

**Full Load Test Summary**

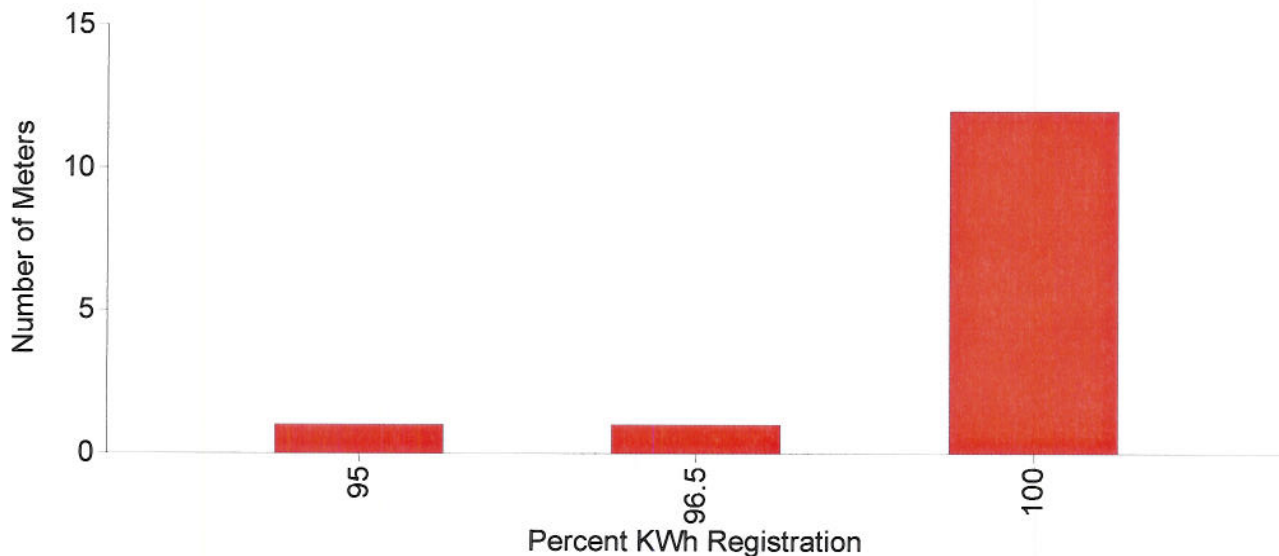
Mean: 96.631  
Standard Deviation: 11.0605  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 12  
Number of Tests < 98%: 2

**Group Test Summary**

The Sample Size is below the limit for a valid statistical sample

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**Histogram of Group 844 Meter Accuracies**



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 845 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): EV-3,EV4

PE Type Code(s): LJ5,LJ6,LJ7,LJ8,LJ9,LK1,LK2,LK3,LK4,LK5,LK6,LK7,LK8,LK9,LL1,LL2,LL3,LL4,LL6,LL7,LL8,LL9,LM1,LM2,LM3,LM4,LM5,LM6,LM7,LN1,LN2,LN3,LN4

Meter Classification: S\*T3\*I

Methodology: Periodic Test

Population: 5029

Sample Size: 302

#### Full Load Test Summary

Mean: 99.803

Standard Deviation: 5.1838

Number of Tests > 102%: 2

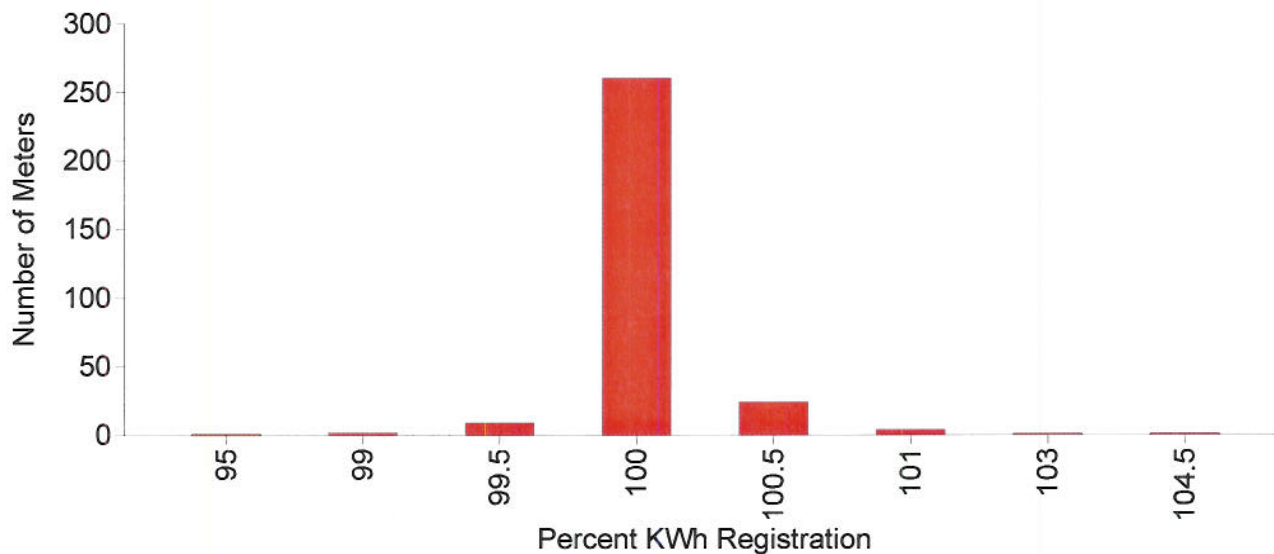
Number of Tests 98 - 102%: 299

Number of Tests < 98%: 1

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 5

### Histogram of Group 845 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 846 Summary

#### Group Information

Manufacturer: ABB/ELSTER

Watthour Meter Type(s): A1D,A1D+,A1RLQ+,A1T+,A1DQ+,A1RL+

PE Type Code(s): T98,T99,TA3,TA4,TA5,TA6,TA7,TA8,TA9,TB1,TC6,TC7,TC8,TC9,TD1,TD2,TD3,TD4,TD5,TD6,TD7,TD8,TD9,TE1,TE2,TE3,TF3,TF4,TF5,TF6,TF7,TF8,TF9,TG1,TG2,TG3,TG4,TG5,TH1,TH2,TH3,TH4,TH6,TH7,TH8,TH9,TJ1,TJ2,TJ3,TJ4,TJ5,TJ6,TJ7,TJ8,TJ9

Meter Classification: S\*T3\*I

Methodology: Periodic Test

Population: 7146

Sample Size: 486

#### Full Load Test Summary

Mean: 99.891

Standard Deviation: 1.5173

Number of Tests > 102%: 0

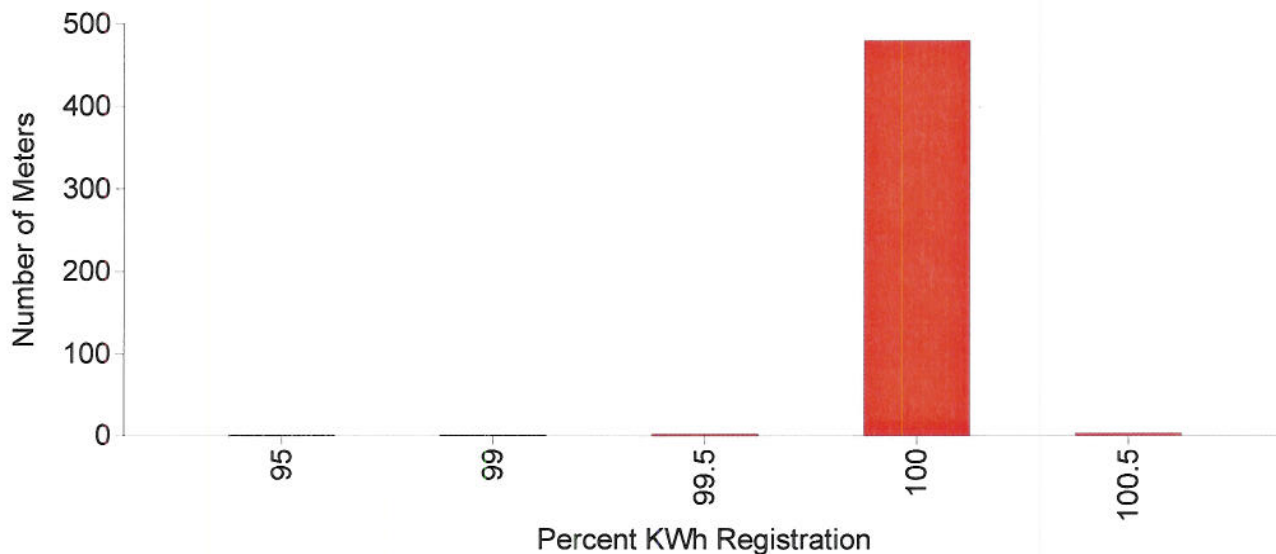
Number of Tests 98 - 102%: 485

Number of Tests < 98%: 1

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 10

### Histogram of Group 846 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 847 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): KV

PE Type Code(s): LN6, LN7, LN8, LN9, LP1, LP2, LP3, LP4, LP5, LP6, LP7, LP8, LP9, LR1, LR2, LR3, LR4, LR5, LR6, LR7, LR9, LT1, LT2

Meter Classification: S\*T3\*I

Methodology: Periodic Test

Population: 4501

Sample Size: 633

#### Full Load Test Summary

Mean: 99.786

Standard Deviation: 4.5699

Number of Tests > 102%: 18

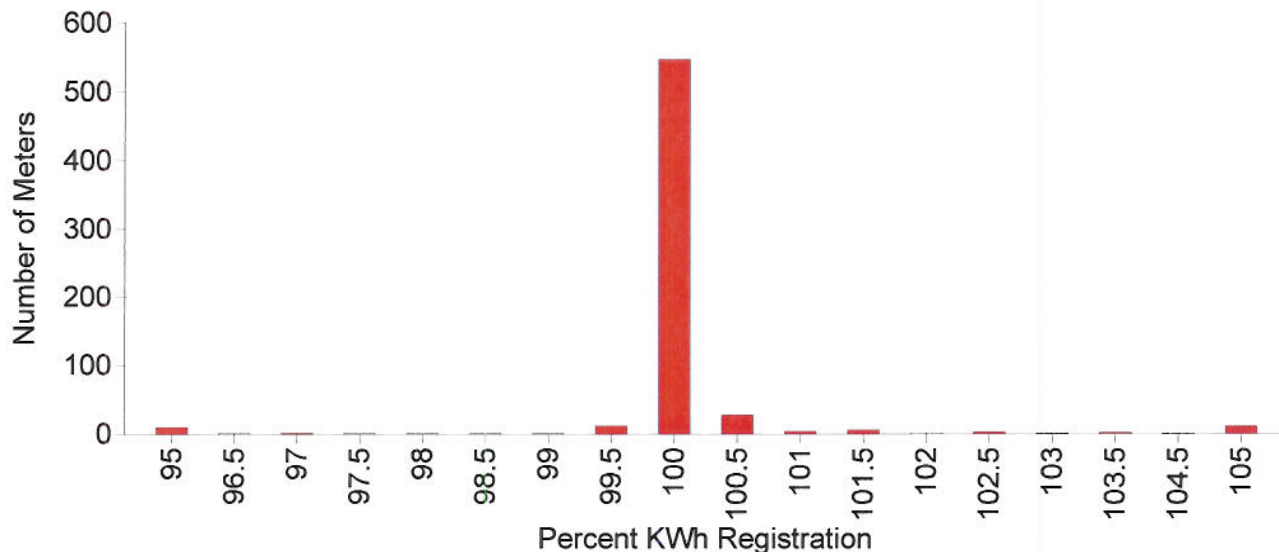
Number of Tests 98 - 102%: 600

Number of Tests < 98%: 15

#### Group Test Summary

This Group FAILS the Periodic test since the number of fast watthour meters exceeds 13

### Histogram of Group 847 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 848 Summary

#### Group Information

Manufacturer: L&G  
Watthour Meter Type(s): AX-4

PE Type Code(s): K15,K16

Meter Classification: STT3NI  
Methodology: Periodic Test  
Population: 4434  
Sample Size: 267

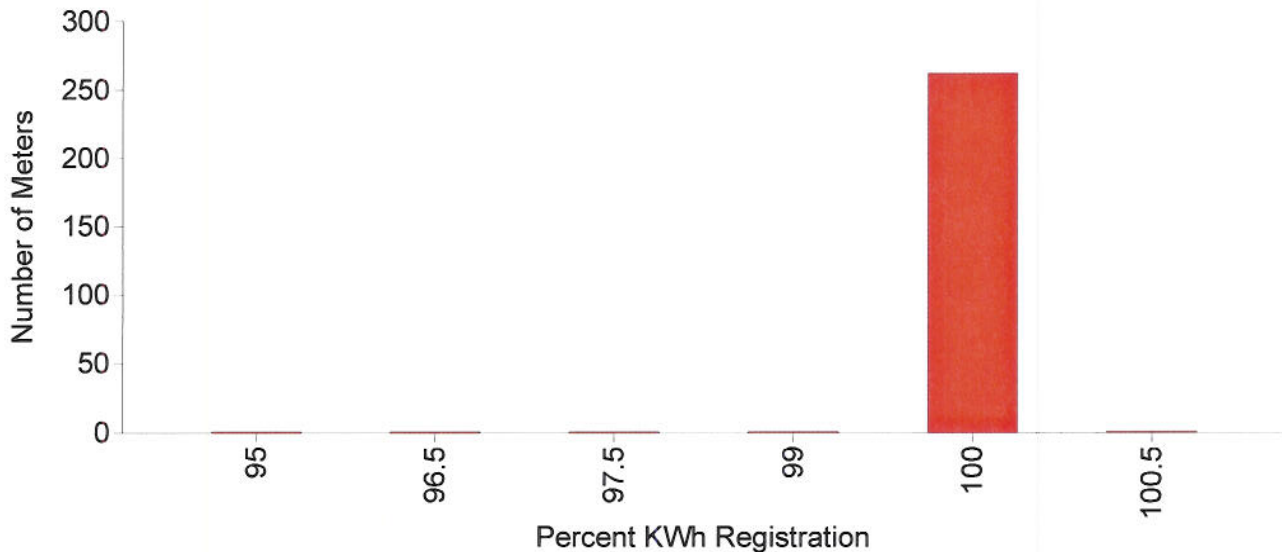
#### Full Load Test Summary

Mean: 99.977  
Standard Deviation: 0.7863  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 264  
Number of Tests < 98%: 3

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 5

### Histogram of Group 848 Meter Accuracies



# Progress Energy - Carolinas

## FIELD PERIODIC

### Watthour Meter Group 849 Summary

#### Group Information

Manufacturer: GE

Watthour Meter Type(s): KV

PE Type Code(s): LT4,LT5,R98,R99,RA1,RA2,RA3,RA4,RA5,RA6,RA7,RA8,RA9,RB2,RB3,RB5

Meter Classification: S\*\*\*\*I

Methodology: Periodic Test

Population: 1568

Sample Size: 99

#### Full Load Test Summary

Mean: 99.488

Standard Deviation: 3.5969

Number of Tests > 102%: 0

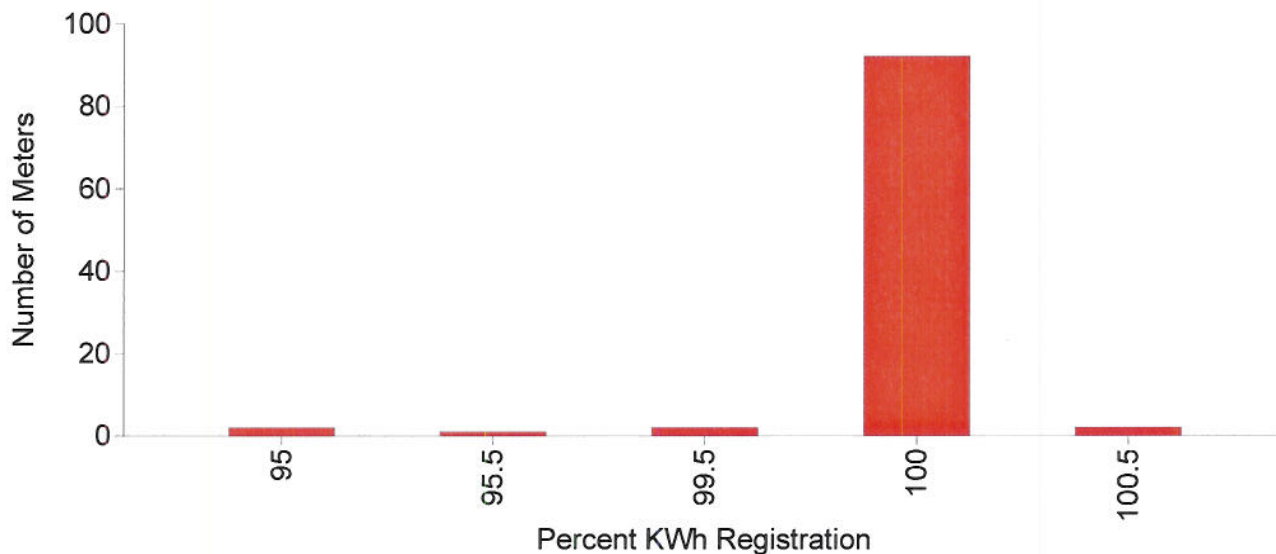
Number of Tests 98 - 102%: 96

Number of Tests < 98%: 3

#### Group Test Summary

This Group PASSES the Periodic test since the number of fast watthour meters is less than 1

### Histogram of Group 849 Meter Accuracies



**Progress Energy - Carolinas**  
FIELD PERIODIC  
Watthour Meter Group 861 Summary

**Group Information**

Manufacturer: GE  
Watthour Meter Type(s): KV2C

PE Type Code(s): LT7,LT8,LT9,LV1,LV2

Meter Classification: STT3\*I  
Methodology: Periodic Test  
Population: 5327  
Sample Size: 326

**Full Load Test Summary**

Mean: 99.956  
Standard Deviation: 0.3209  
Number of Tests > 102%: 0  
Number of Tests 98 - 102%: 325  
Number of Tests < 98%: 1

**Group Test Summary**

This Group PASSES the Periodic test since the number of fast watthour meters is less than 6

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**Histogram of Group 861 Meter Accuracies**

